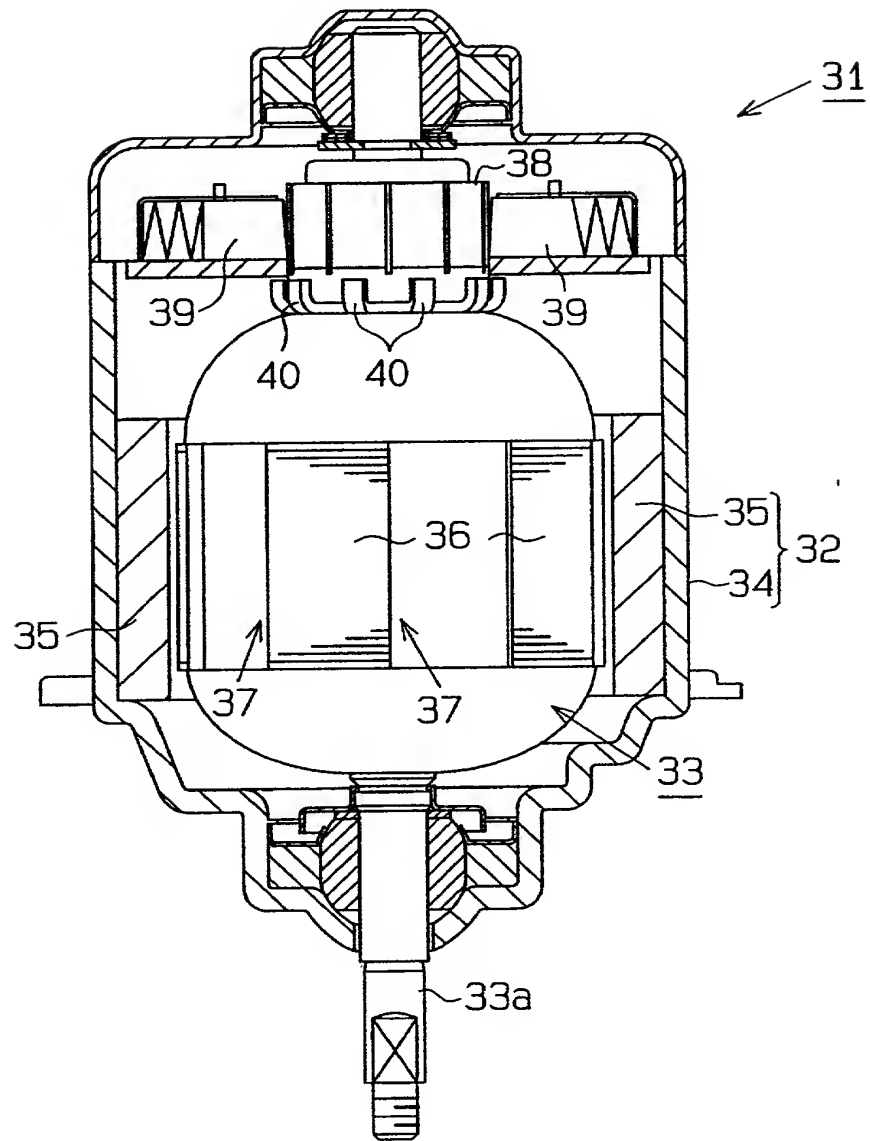
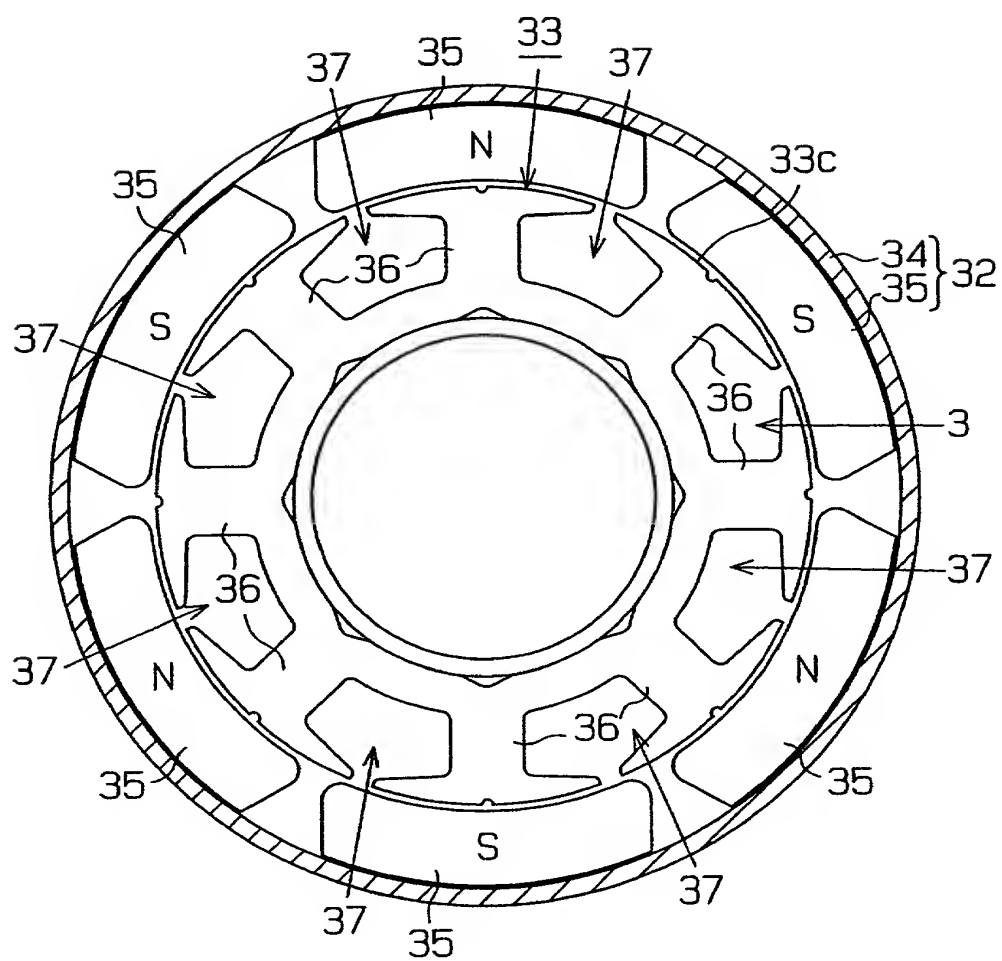


**Fig.1**



**Fig.2**



**Fig.3**

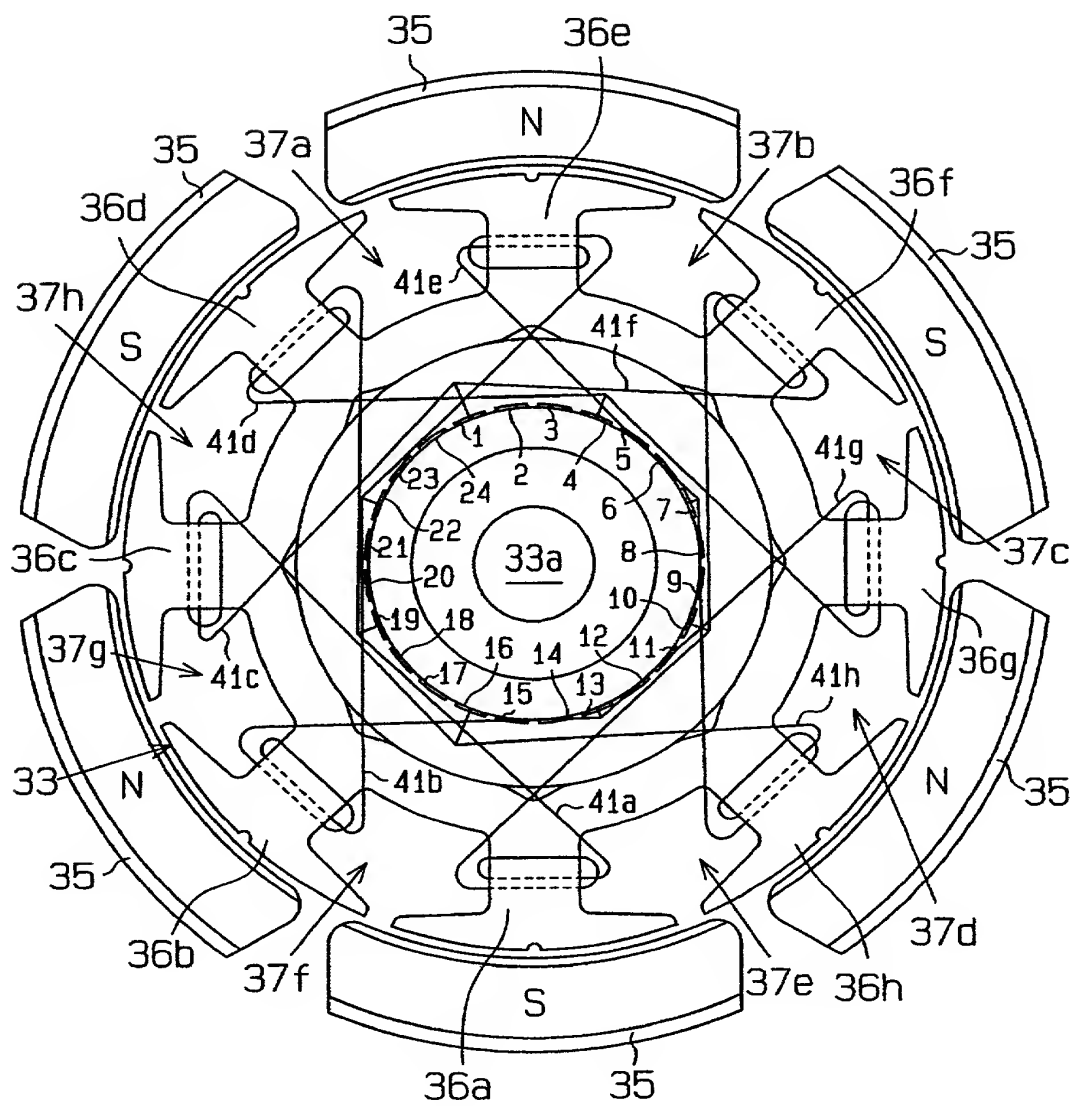
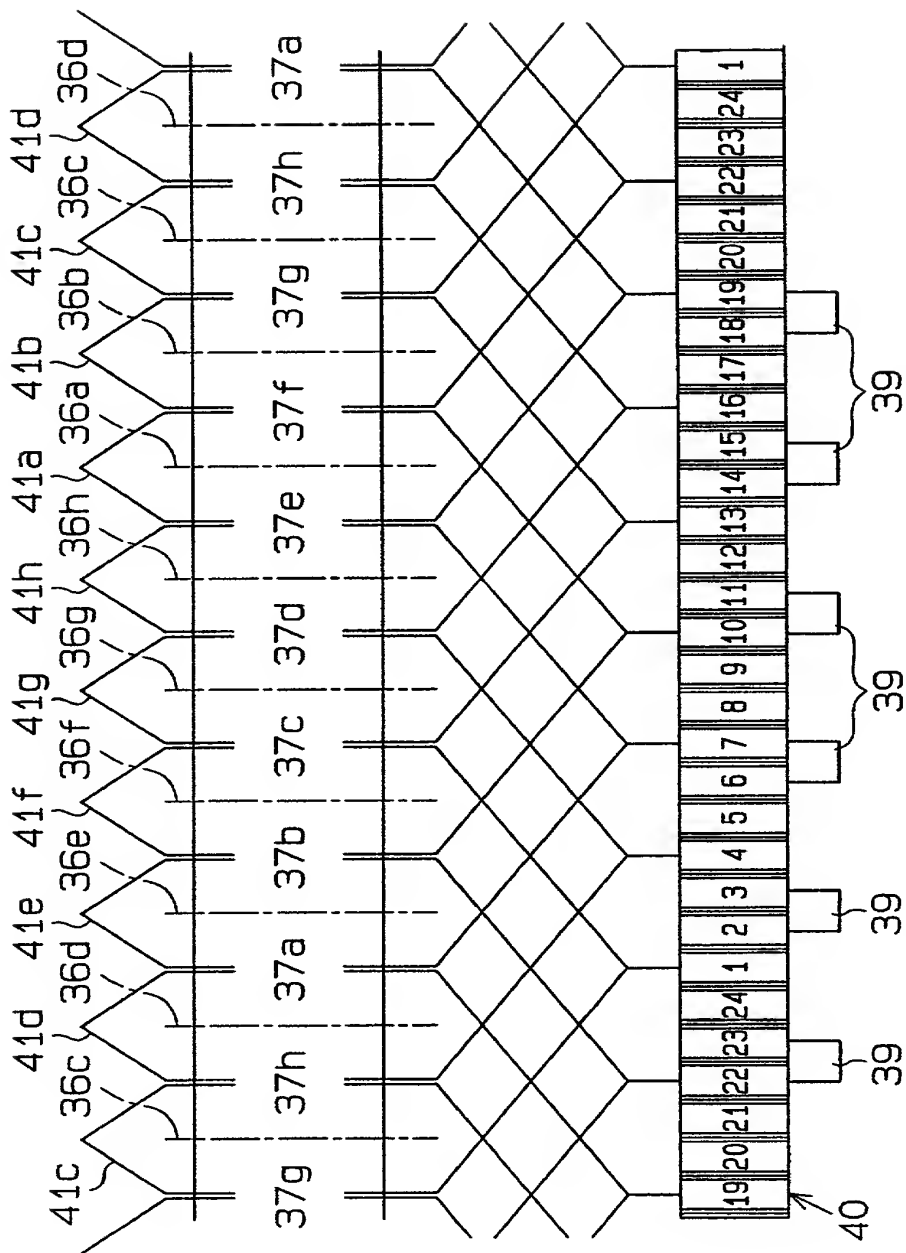
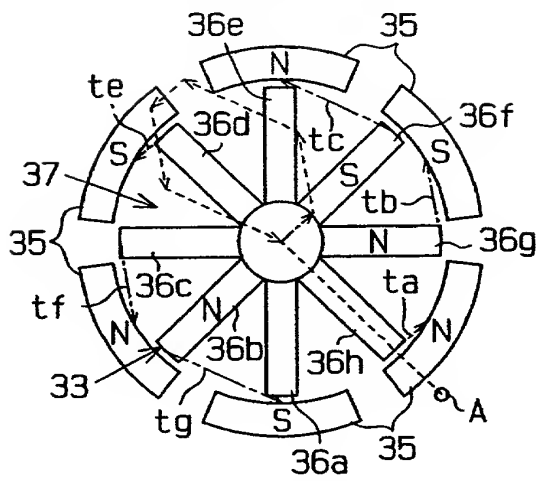


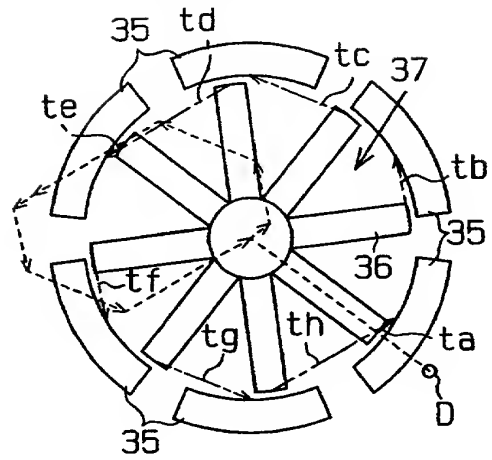
Fig. 4



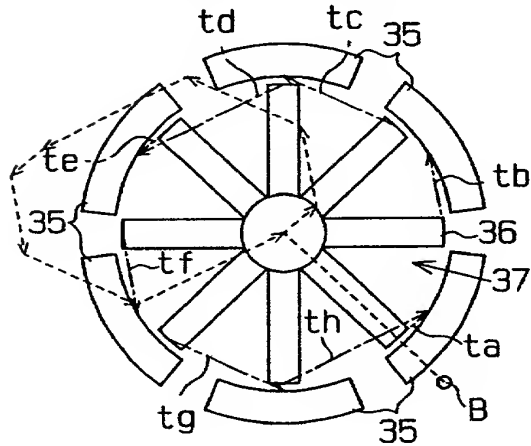
**Fig5 (a)**



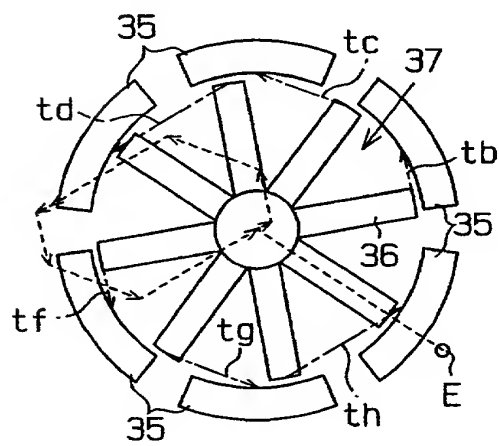
**Fig5 (d)**



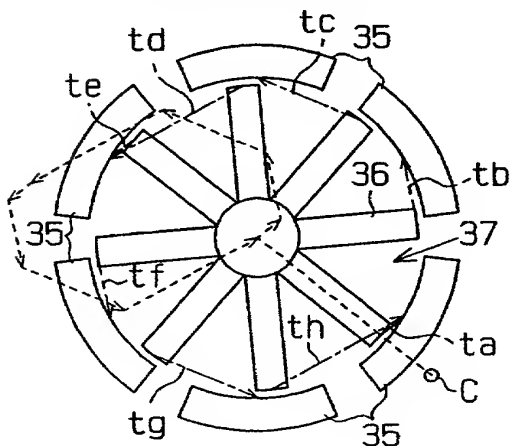
**Fig.5 (b)**



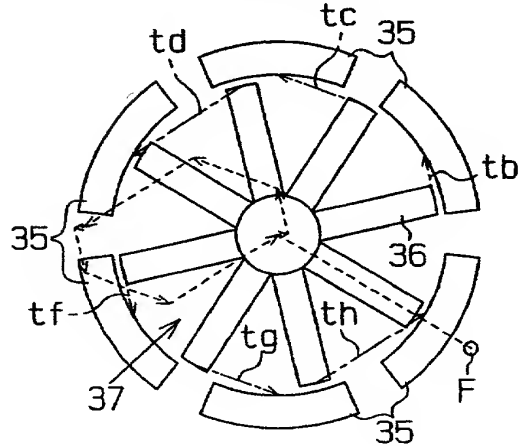
**Fig5 (e)**



**Fig.5 (c)**



**Fig5 (f)**



# Fig.6

		n							
		3	4	5	6	7	8	9	10
2m	2 K	0.866	0.707	0.588	0.500	0.434	0.383	0.342	0.309
	2 TF	0.866	0.000	0.363	0.000	0.241	0.000	0.182	0.000
	2 NF	0.500	0.000	1.118	0.000	0.945	0.000	1.032	0.000
	2 H	6	4	10	6	14	8	18	10
	4 K	0.866		0.951	0.866	0.782	0.707	0.643	0.588
	4 TF	0.866		1.176	0.000	0.386	0.000	0.446	0.000
	4 NF	0.500		0.000	0.000	1.247	0.000	1.347	0.000
	4 H	12		20	12	28	8	36	20
	6 K		0.707	0.951		0.975	0.924	0.866	0.809
	6 TF		0.000	1.176		1.564	0.000	0.000	0.000
	6 NF		0.000	0.000		0.445	0.000	0.000	0.000
	6 H		12	30		42	24	18	30
	8 K			0.588	0.866	0.975		0.985	0.951
	8 TF			0.363	0.000	1.564		1.970	0.000
	8 NF			1.118	0.000	0.445		0.879	0.000
	8 H			40	24	56		72	40
	10 K				0.500	0.782	0.924	0.985	
	10 TF				0.000	0.386	0.000	1.970	
	10 NF				0.000	1.247	0.000	0.879	
	10 H				30	70	40	90	
	12 K					0.434	0.707	0.866	0.951
	12 TF					0.241	0.000	0.000	0.000
	12 NF					0.945	0.000	0.000	0.000
	12 H					84	24	36	60
	14 K	0.866					0.383	0.643	0.809
	14 TF	0.866					0.000	0.446	0.000
	14 NF	0.500					0.000	1.347	0.000
	14 H	42					56	126	70
	16 K	0.866						0.342	0.588
	16 TF	0.866						0.182	0.000
	16 NF	0.500						1.032	0.000
	16 H	48						144	80
	18 K		0.707						0.309
	18 TF		0.000						0.000
	18 NF		0.000						0.000
	18 H		36						90
	20 K								
	20 TF								
	20 NF								
	20 H								
	22 K		0.707	0.588					
	22 TF		0.000	0.363					
	22 NF		0.000	1.118					
	22 H		44	110					
	24 K			0.951					
	24 TF			1.176					
	24 NF			0.000					
	24 H			120					



Radial Force  
Exists



Nonfunctioning  
as Motor

# Fig.7

		n							
		11	12	13	14	15	16	17	18
2m	2 K	0.282	0.259	0.239	0.223	0.208	0.195	0.184	0.174
	2 TF	0.147	0.000	0.123	0.000	0.106	0.000	0.093	0.000
	2 NF	0.979	0.000	1.015	0.000	0.989	0.000	1.009	0.000
	2 H	22	12	26	14	30	16	34	18
	4 K	0.541	0.500	0.465	0.434	0.407	0.383	0.361	0.342
	4 TF	0.256	0.000	0.281	0.000	0.192	0.000	0.206	0.000
	4 NF	0.831	0.000	0.788	0.000	1.129	0.000	1.153	0.000
	4 H	44	12	52	28	60	16	68	36
	6 K	0.756	0.707	0.663	0.623	0.588	0.556	0.526	0.500
	6 TF	0.518	0.000	0.594	0.000	0.000	0.000	0.342	0.000
	6 NF	1.440	0.000	1.530	0.000	0.000	0.000	0.708	0.000
	6 H	66	12	78	42	30	48	102	18
	8 K	0.910	0.866	0.823	0.782	0.743	0.707	0.674	0.643
	8 TF	0.175	0.000	0.139	0.000	0.673	0.000	0.753	0.000
	8 NF	1.073	0.000	0.950	0.000	1.618	0.000	1.705	0.000
	8 H	88	24	104	56	120	16	136	72
	10 K	0.990	0.966	0.935	0.901	0.866	0.831	0.798	0.766
	10 TF	2.383	0.000	0.181	0.000	0.000	0.000	0.146	0.000
	10 NF	1.310	0.000	1.103	0.000	0.000	0.000	0.912	0.000
	10 H	110	60	130	70	30	80	170	90
	12 K	0.990		0.993	0.975	0.951	0.924	0.895	0.866
	12 TF	2.383		2.799	0.000	0.000	0.000	0.100	0.000
	12 NF	1.310		1.738	0.000	0.000	0.000	0.972	0.000
	12 H	132		156	84	60	48	204	36
	14 K	0.910	0.966	0.993		0.995	0.981	0.962	0.940
	14 TF	0.175	0.000	2.799		3.218	0.000	0.116	0.000
	14 NF	1.073	0.000	1.738		2.165	0.000	1.052	0.000
	14 H	154	84	182		210	112	238	126
	16 K	0.756	0.866	0.935	0.975	0.995		0.996	0.995
	16 TF	0.518	0.000	0.181	0.000	3.218		3.639	0.000
	16 NF	1.440	0.000	1.103	0.000	2.165		2.592	0.000
	16 H	176	48	208	112	240		272	144
	18 K	0.541	0.707	0.823	0.901	0.951	0.981	0.996	
	18 TF	0.256	0.000	0.139	0.000	0.000	0.000	3.639	
	18 NF	0.831	0.000	0.950	0.000	0.000	0.000	2.592	
	18 H	198	36	234	126	90	144	306	
	20 K	0.282	0.500	0.663	0.782	0.866	0.924	0.962	0.995
	20 TF	0.147	0.000	0.594	0.000	0.000	0.000	0.116	0.000
	20 NF	0.979	0.000	1.530	0.000	0.000	0.000	1.052	0.000
	20 H	220	60	260	140	60	80	340	180
	22 K		0.259	0.465	0.623	0.743	0.831	0.895	0.940
	22 TF		0.000	0.281	0.000	0.673	0.000	0.100	0.000
	22 NF		0.000	0.788	0.000	1.618	0.000	0.972	0.000
	22 H		132	286	154	330	176	374	198
	24 K			0.239	0.434	0.588	0.707	0.798	0.866
	24 TF			1.123	0.000	0.000	0.000	0.146	0.000
	24 NF			1.015	0.000	0.000	0.000	0.912	0.000
	24 H			312	168	120	48	408	72



Radial Force  
Exists



Nonfunctioning  
as Motor

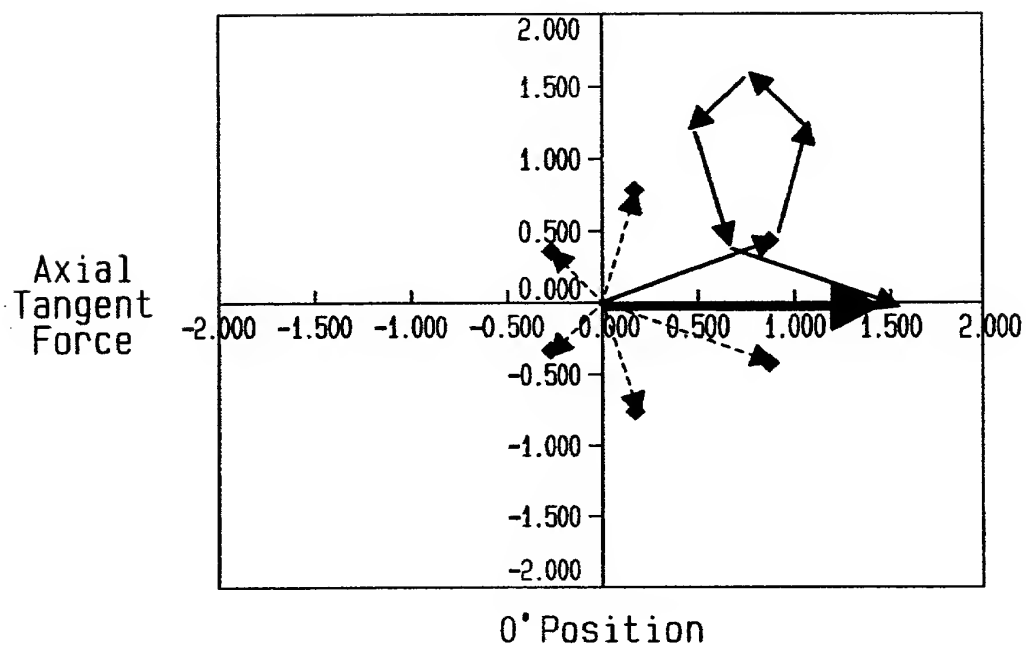
# Fig.8

			n						
			19	20	21	22	23	24	25
2m	2	K	0.165	0.156	0.149	0.142	0.136	0.131	0.125
	2	TF	0.083	0.000	0.075	0.000	0.069	0.000	0.063
	2	NF	0.993	0.000	1.006	0.000	0.995	0.000	1.004
	2	H	38	20	42	22	46	24	50
	4	K	0.325	0.309	0.295	0.282	0.270	0.259	0.249
	4	TF	0.154	0.000	0.163	0.000	0.129	0.000	0.135
	4	NF	0.895	0.000	0.880	0.000	1.088	0.000	1.099
	4	H	76	20	84	44	92	24	100
	6	K	0.476	0.454	0.434	0.415	0.398	0.383	0.368
	6	TF	0.375	0.000	0.000	0.000	0.257	0.000	0.275
	6	NF	0.669	0.000	0.000	0.000	1.220	0.000	1.241
	6	H	114	60	42	66	138	24	150
	8	K	0.614	0.588	0.563	0.541	0.520	0.500	0.482
	8	TF	0.099	0.000	0.087	0.000	0.442	0.000	0.476
	8	NF	0.960	0.000	1.032	0.000	0.594	0.000	0.556
	8	H	152	40	168	88	184	24	200
	10	K	0.736	0.707	0.680	0.655	0.631	0.609	0.588
	10	TF	0.835	0.000	0.917	0.000	0.103	0.000	0.000
	10	NF	1.792	0.000	1.878	0.000	0.941	0.000	0.000
	10	H	190	20	210	110	230	120	50
	12	K	0.837	0.809	0.782	0.756	0.731	0.707	0.685
	12	TF	0.088	0.000	0.000	0.000	0.999	0.000	1.082
	12	NF	1.022	0.000	0.000	0.000	1.964	0.000	2.050
	12	H	228	60	84	132	276	24	300
	14	K	0.916	0.891	0.866	0.841	0.817	0.793	0.771
	14	TF	0.222	0.000	0.000	0.000	0.173	0.000	0.077
	14	NF	1.176	0.000	0.000	0.000	0.866	0.000	0.967
	14	H	266	140	42	154	322	168	350
	16	K	0.969	0.951	0.931	0.910	0.888	0.866	0.844
	16	TF	0.119	0.000	0.239	0.000	0.071	0.000	0.065
	16	NF	1.065	0.000	1.198	0.000	1.015	0.000	0.988
	16	H	304	80	336	176	368	48	400
	18	K	0.997	0.988	0.975	0.959	0.942	0.924	0.905
	18	TF	4.060	0.000	0.000	0.000	0.077	0.000	0.106
	18	NF	3.018	0.000	0.000	0.000	0.974	0.000	0.932
	18	H	342	180	126	198	414	72	450
	20	K	0.997		0.997	0.990	0.979	0.966	0.951
	20	TF	4.060		4.481	0.000	0.087	0.000	0.000
	20	NF	3.018		3.444	0.000	1.040	0.000	0.000
	20	H	380		420	220	460	120	100
	22	K	0.969	0.988	0.997		0.998	0.991	0.982
	22	TF	0.119	0.000	4.481		4.904	0.000	0.088
	22	NF	1.065	0.000	3.444		3.869	0.000	1.047
	22	H	418	220	462		506	264	550
	24	K	0.916	0.951	0.975	0.990	0.998	1.000	0.998
	24	TF	0.222	0.000	0.000	0.000	4.904	0.000	5.326
	24	NF	1.176	0.000	0.000	0.000	3.869	0.000	4.295
	24	H	456	120	168	264	552	24	600

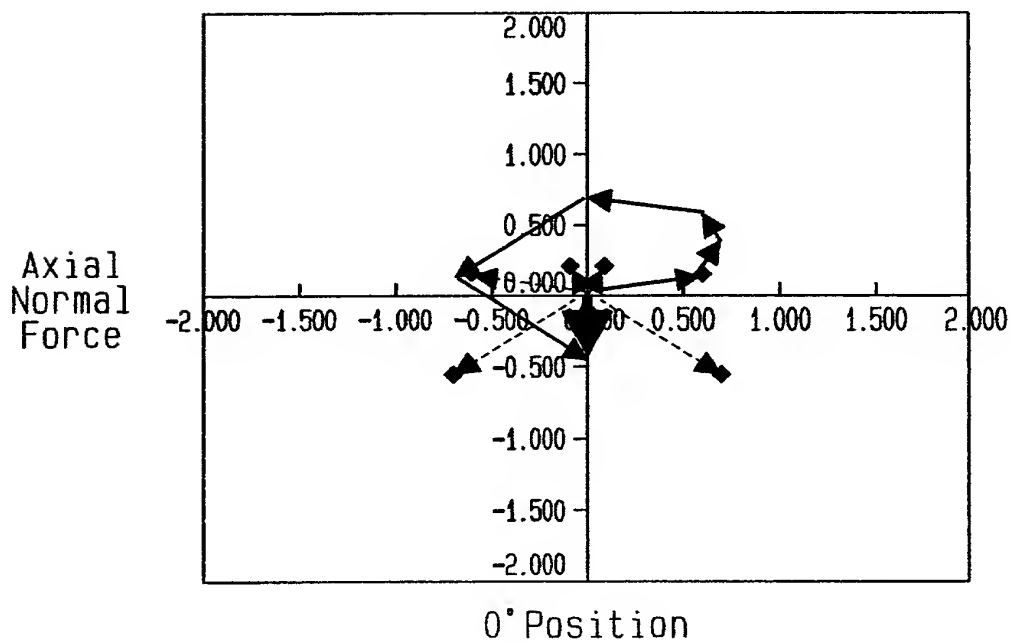
Radial Force Exists
  Nonfunctioning as Motor



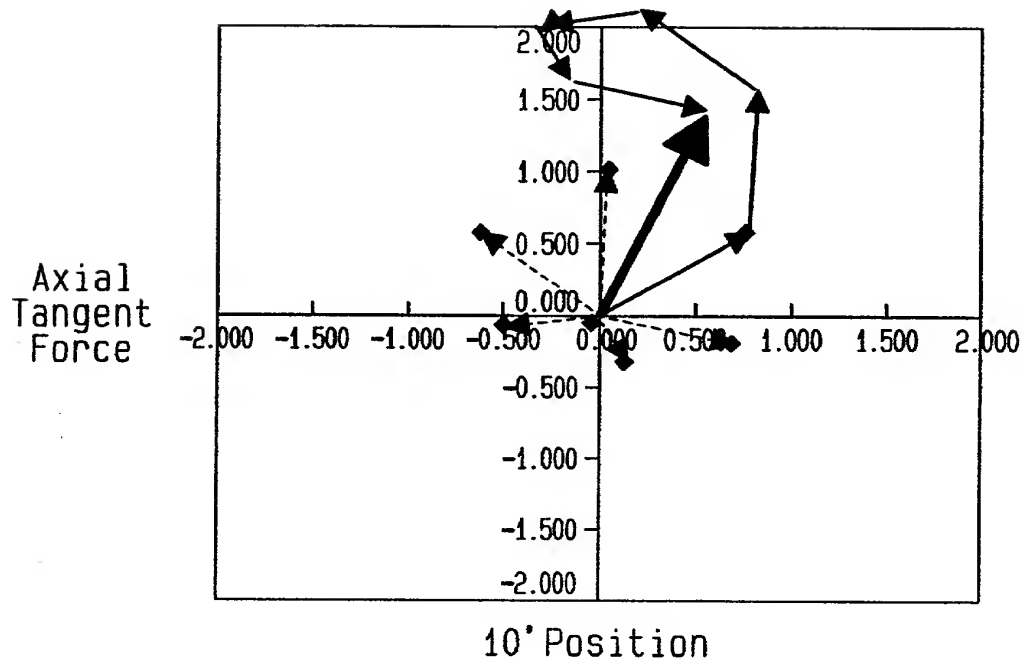
**Fig. 9 (a)**



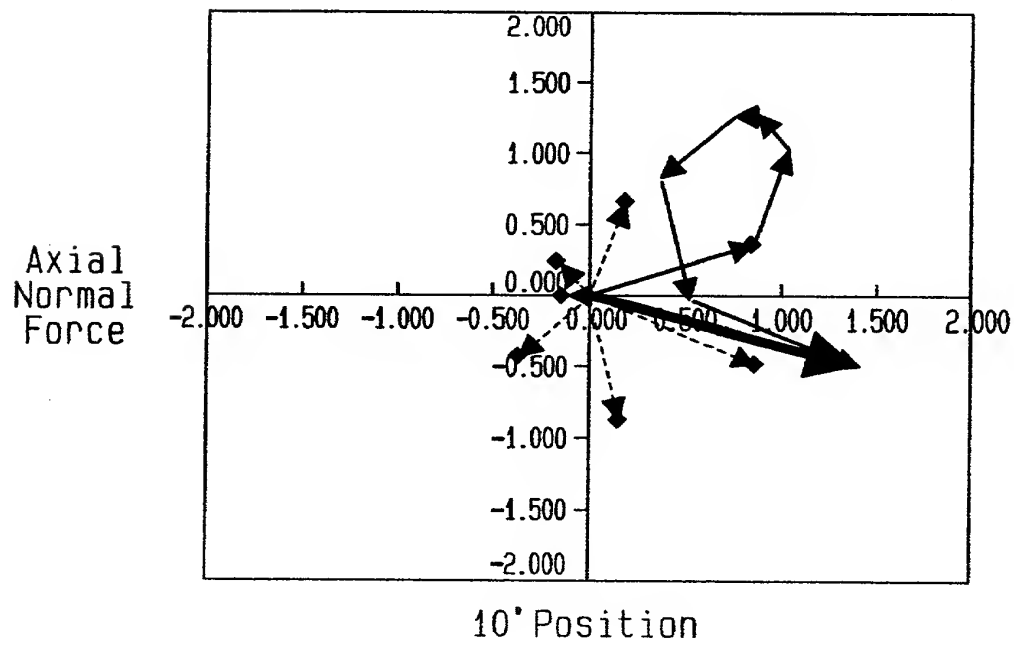
**Fig. 9 (b)**



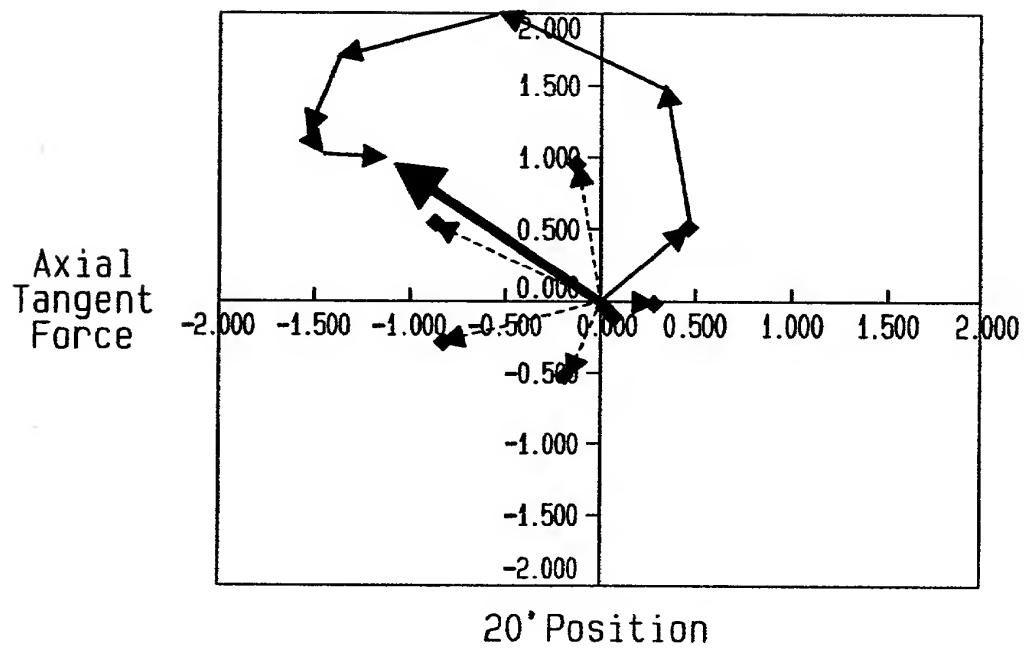
**Fig.10 (a)**



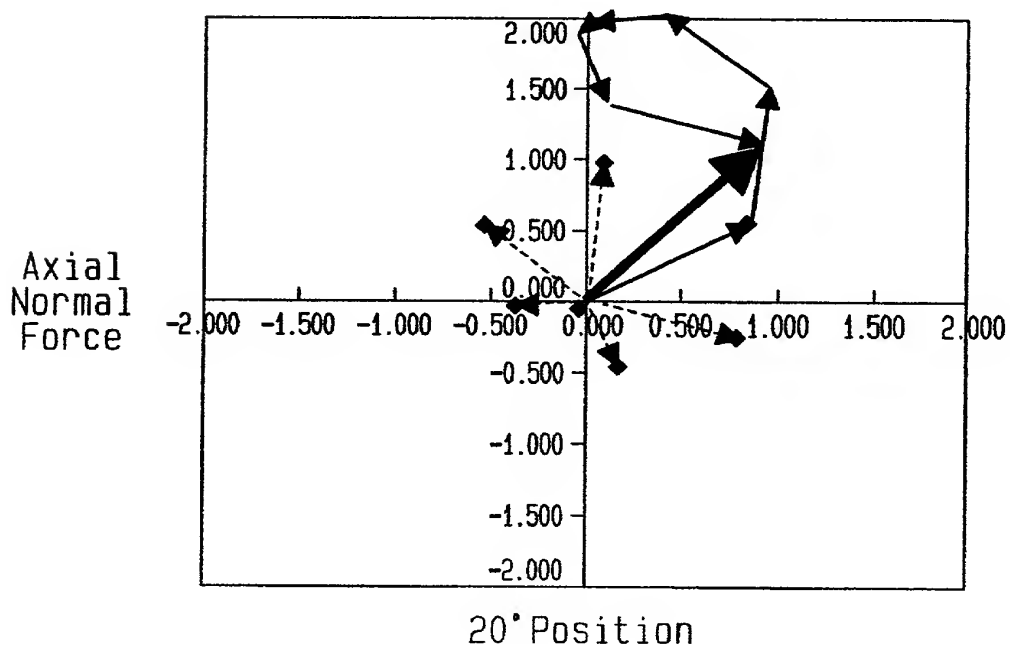
**Fig.10 (b)**



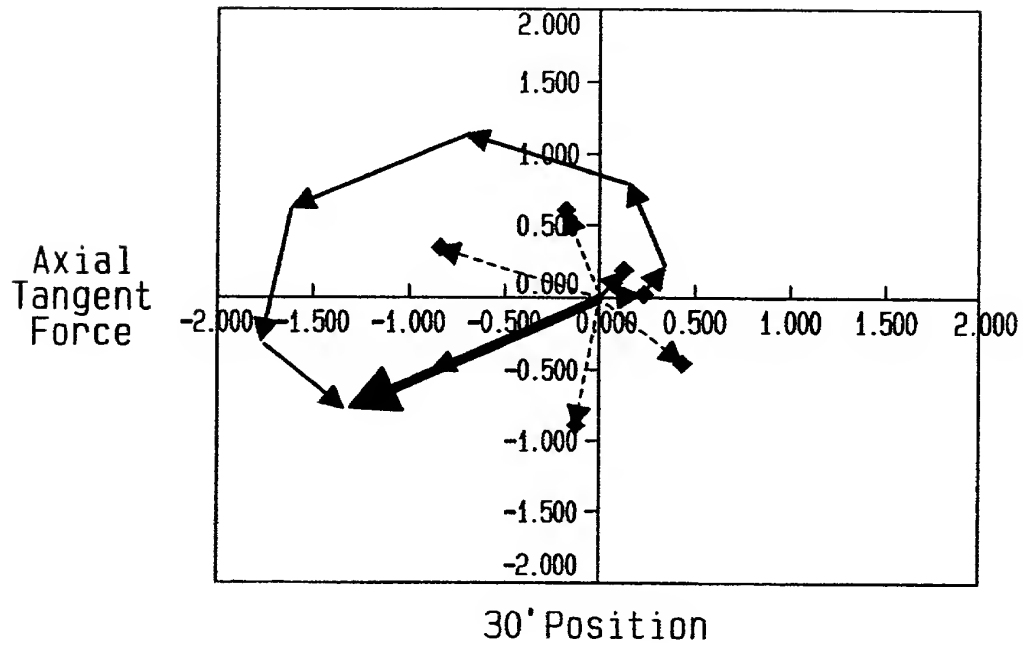
**Fig.11 (a)**



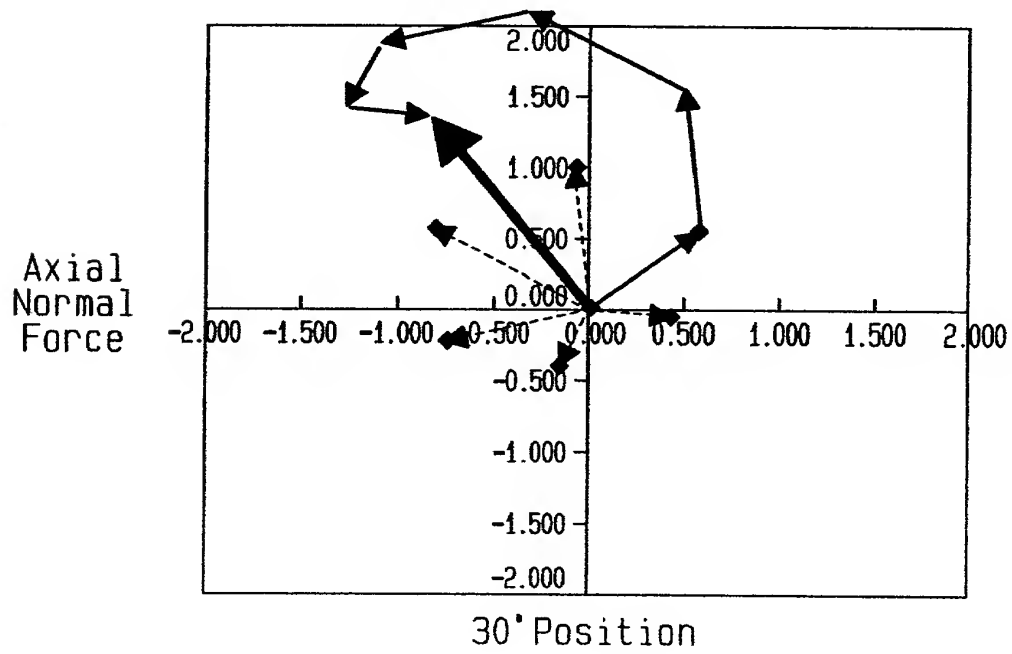
**Fig.11 (b)**



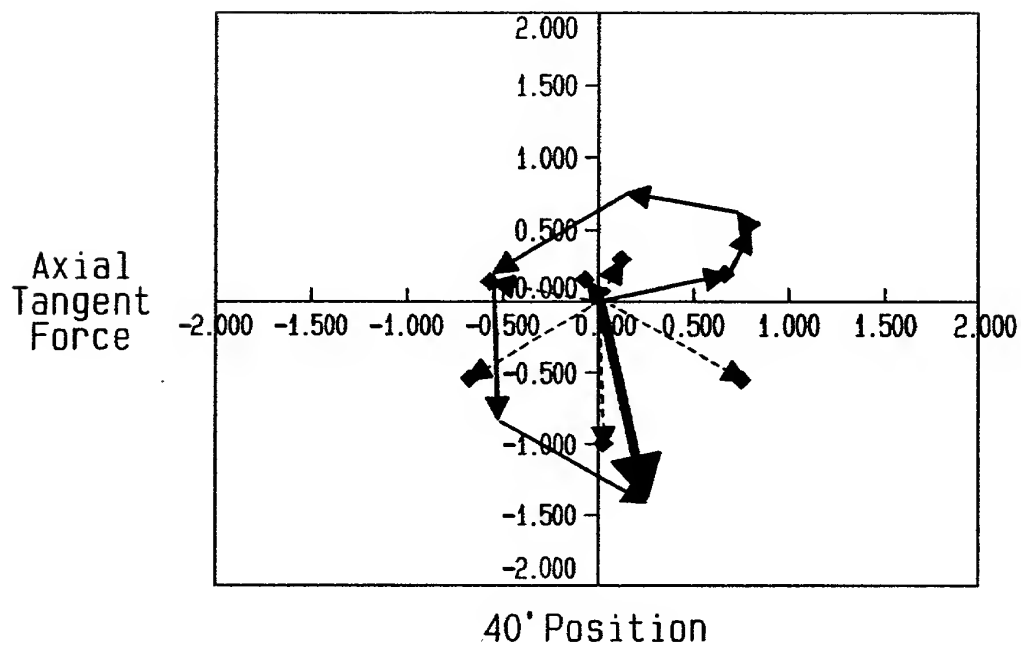
**Fig.12(a)**



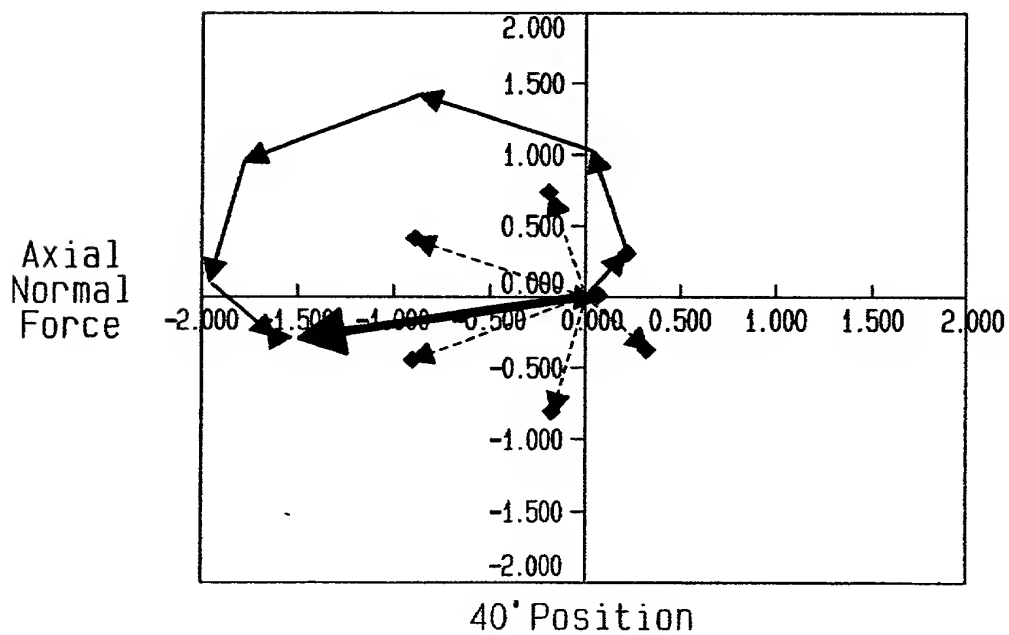
**Fig.12(b)**



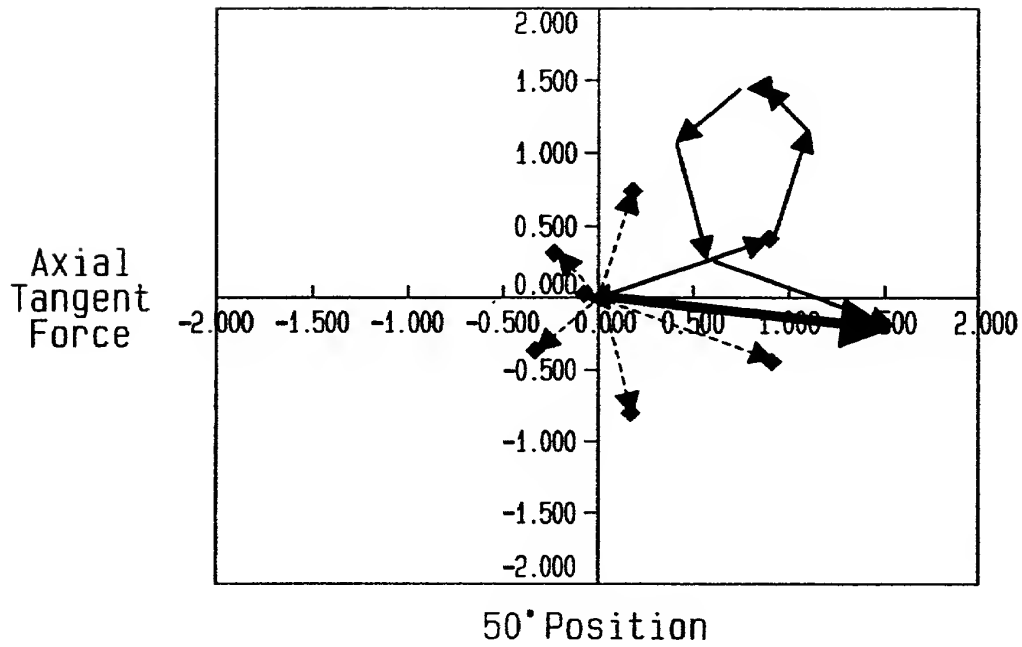
**Fig.13 (a)**



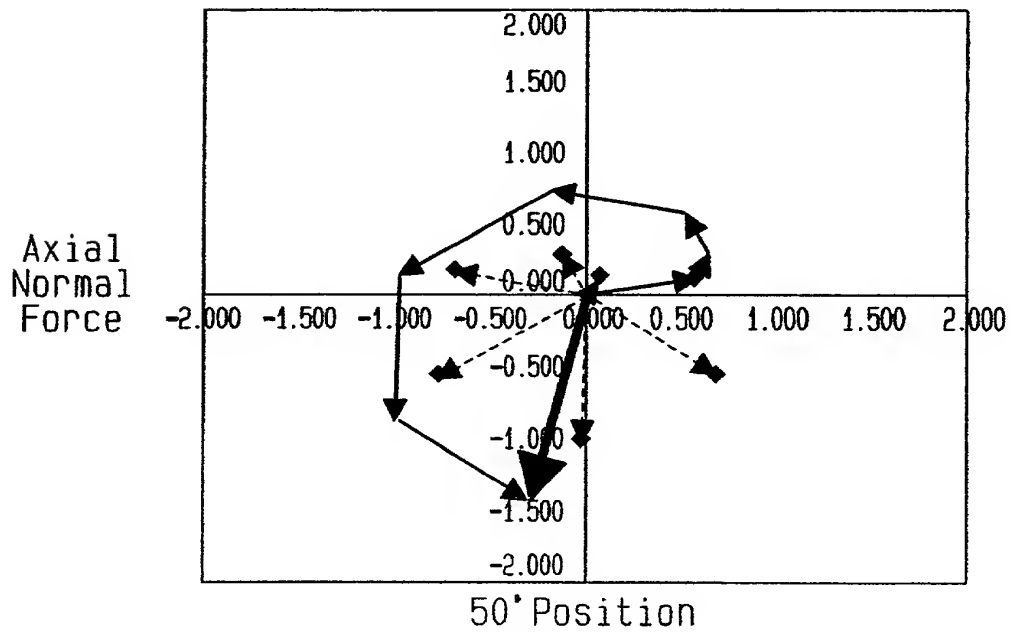
**Fig.13 (b)**



**Fig.14(a)**

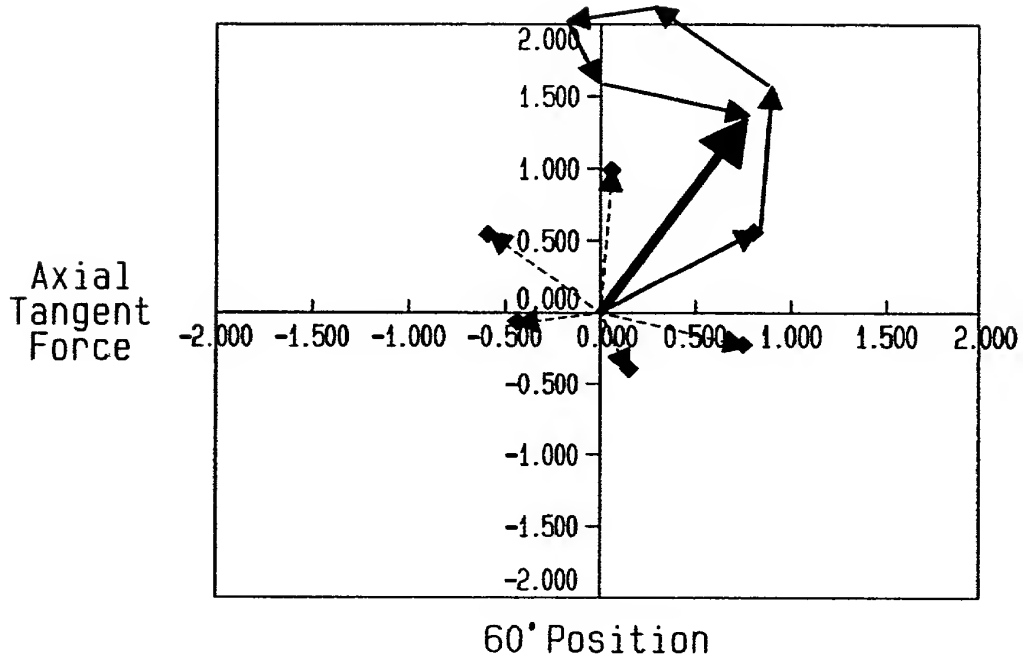


**Fig.14(b)**

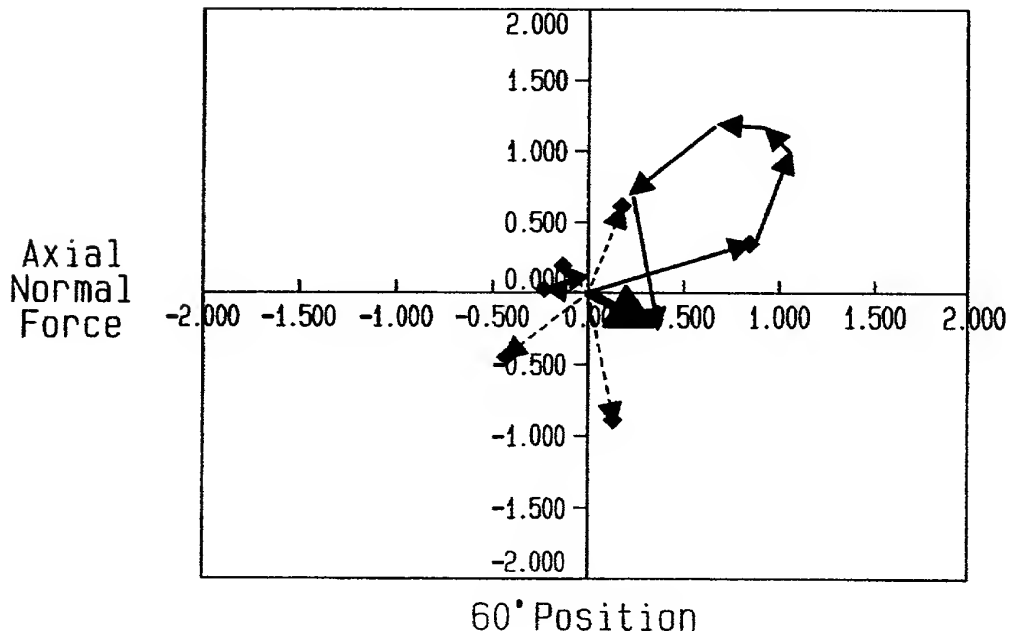


20020" 9602800F

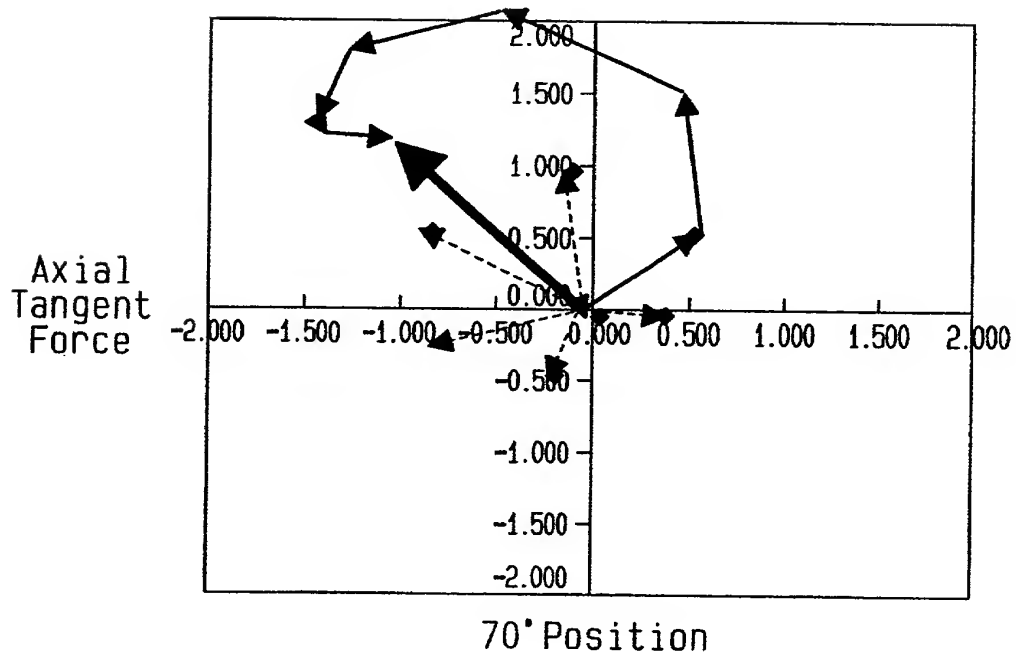
**Fig.15 (a )**



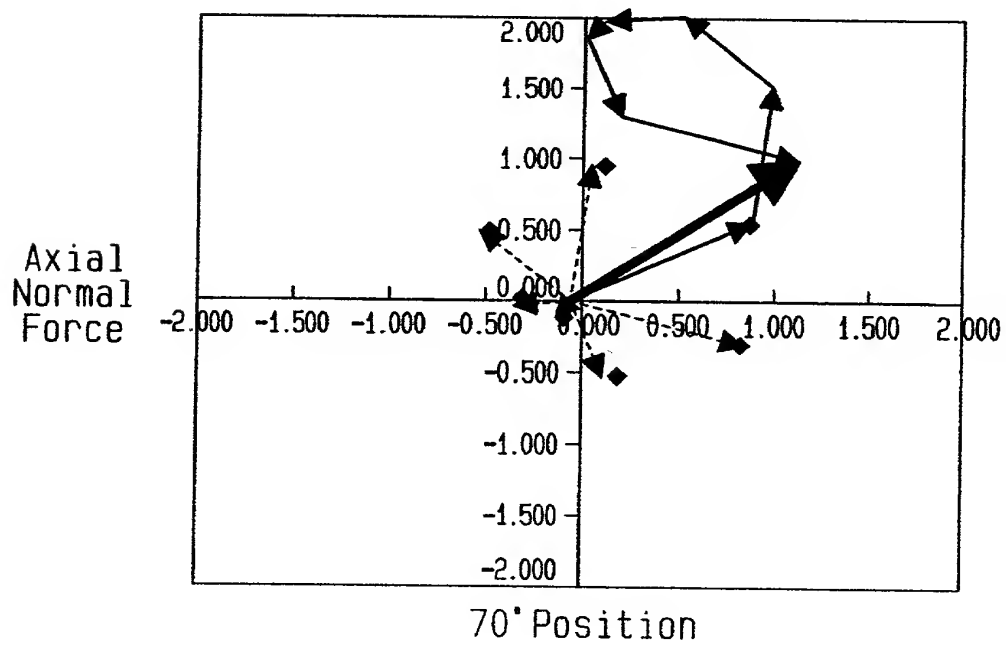
**Fig.15 (b )**



**Fig.16 (a)**

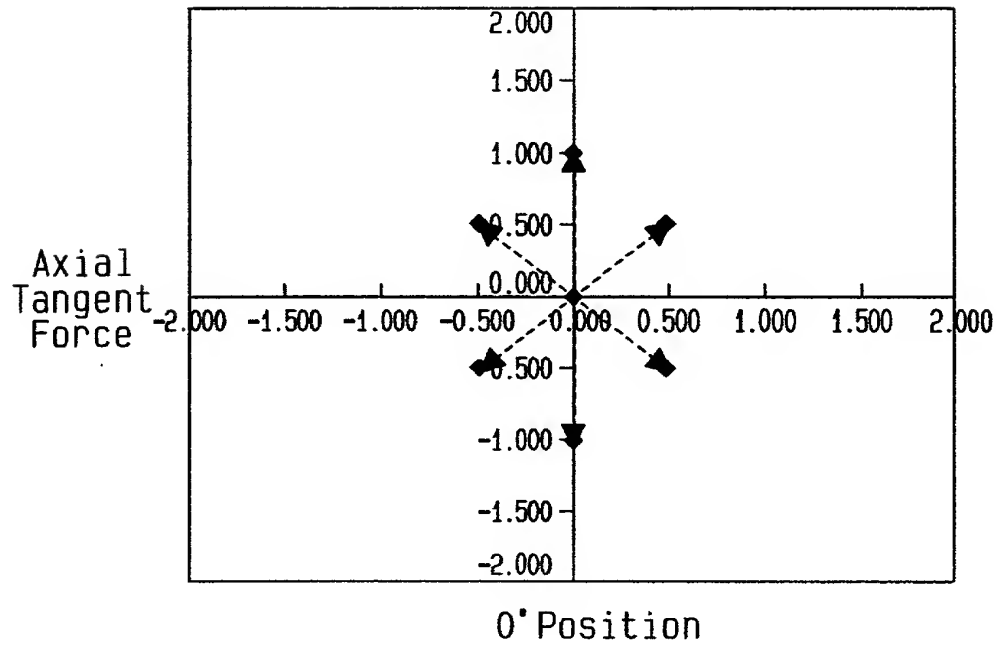


**Fig.16 (b)**

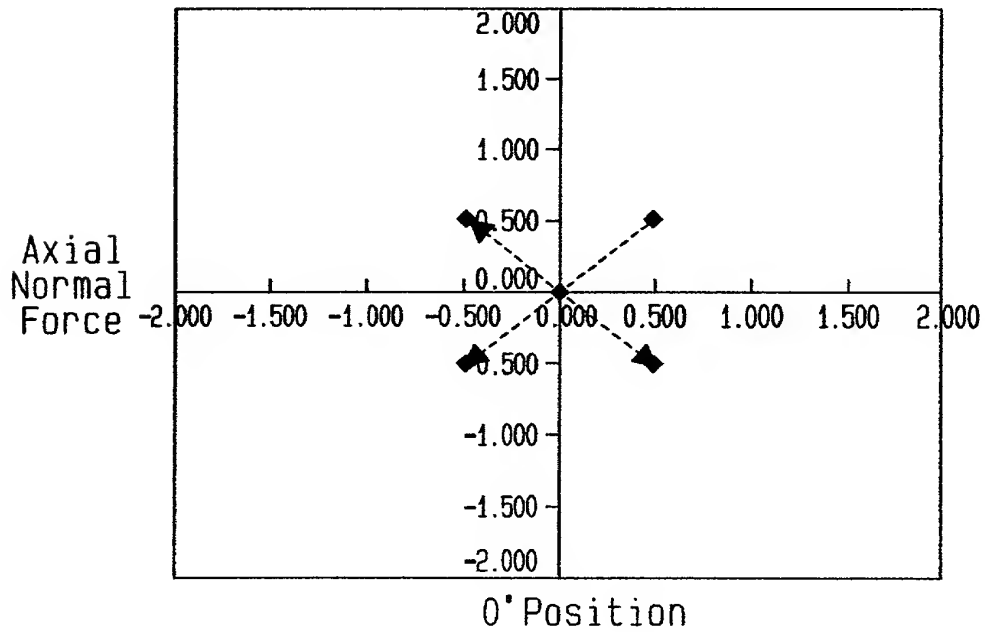




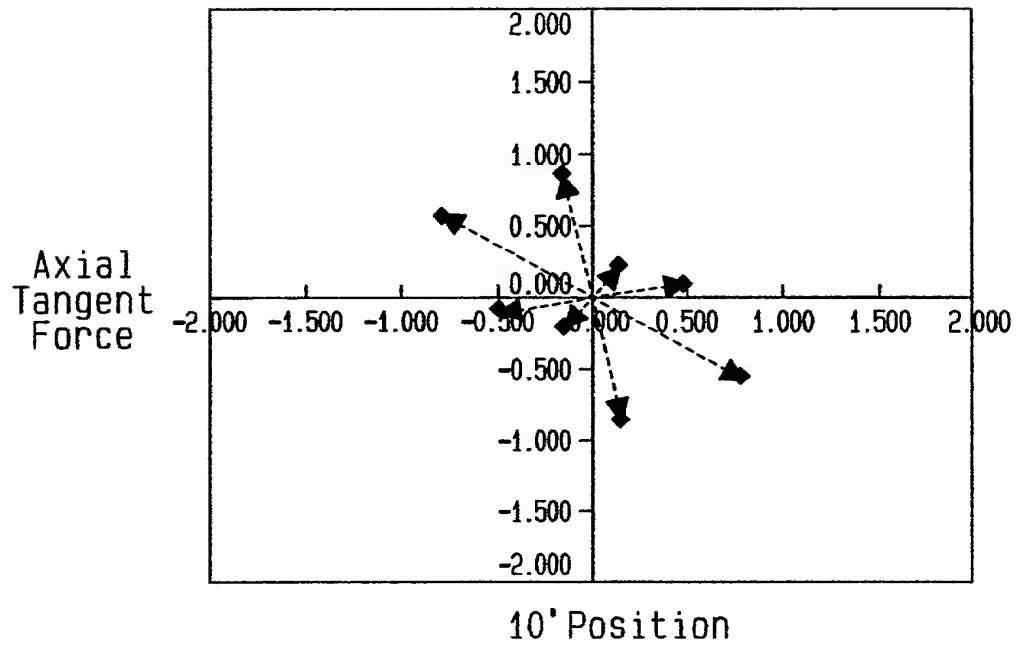
**Fig.17 (a)**



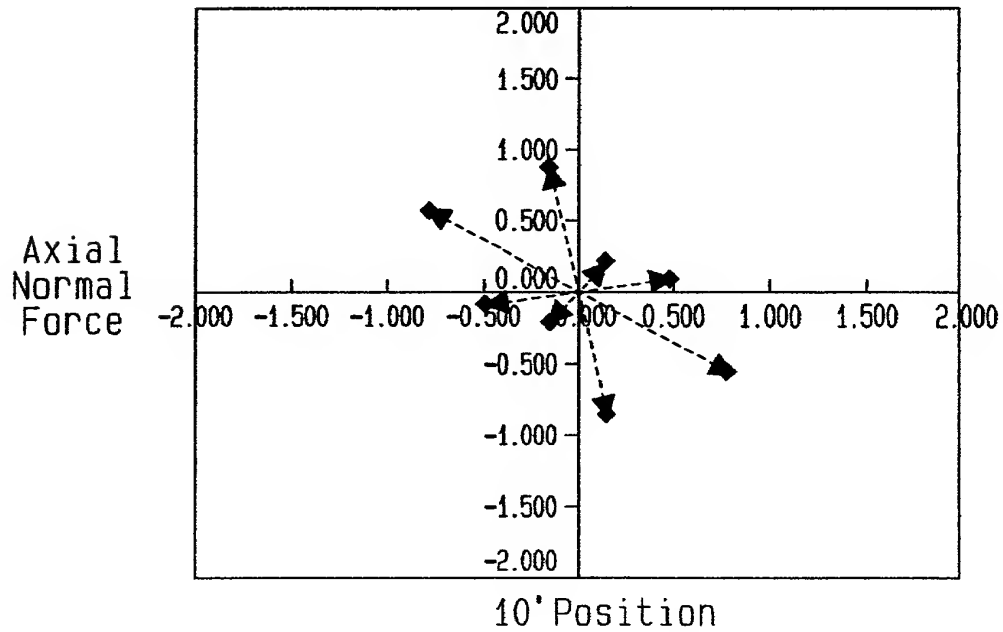
**Fig.17 (b)**



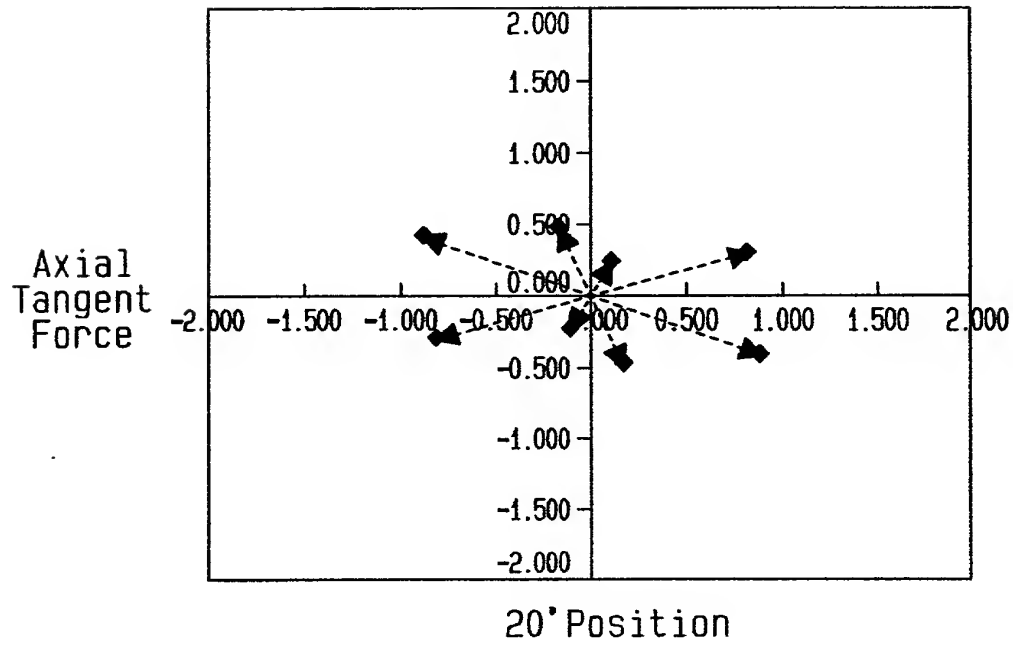
**Fig.18 (a )**



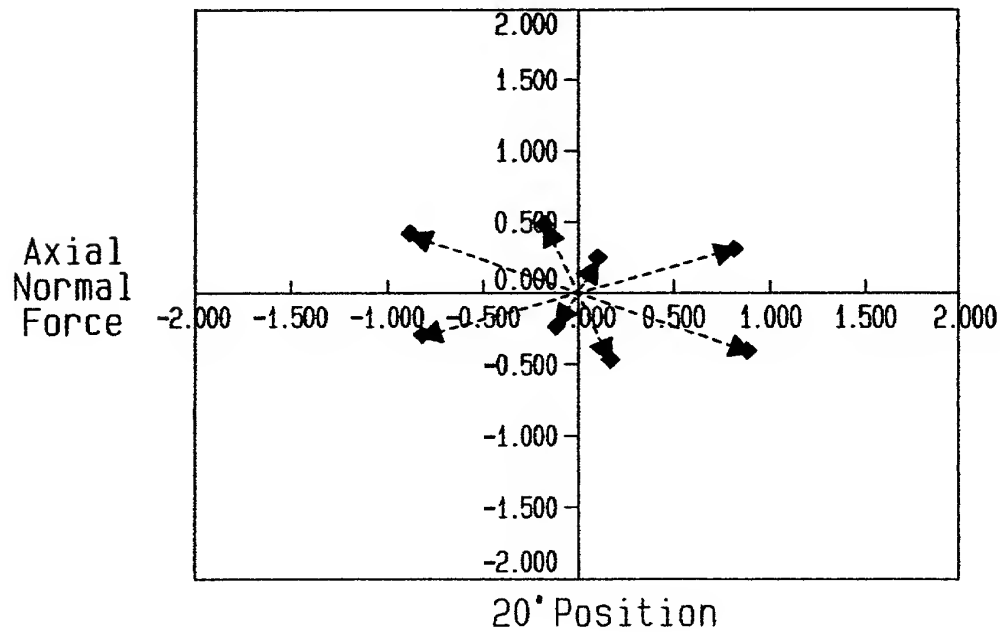
**Fig.18 (b )**



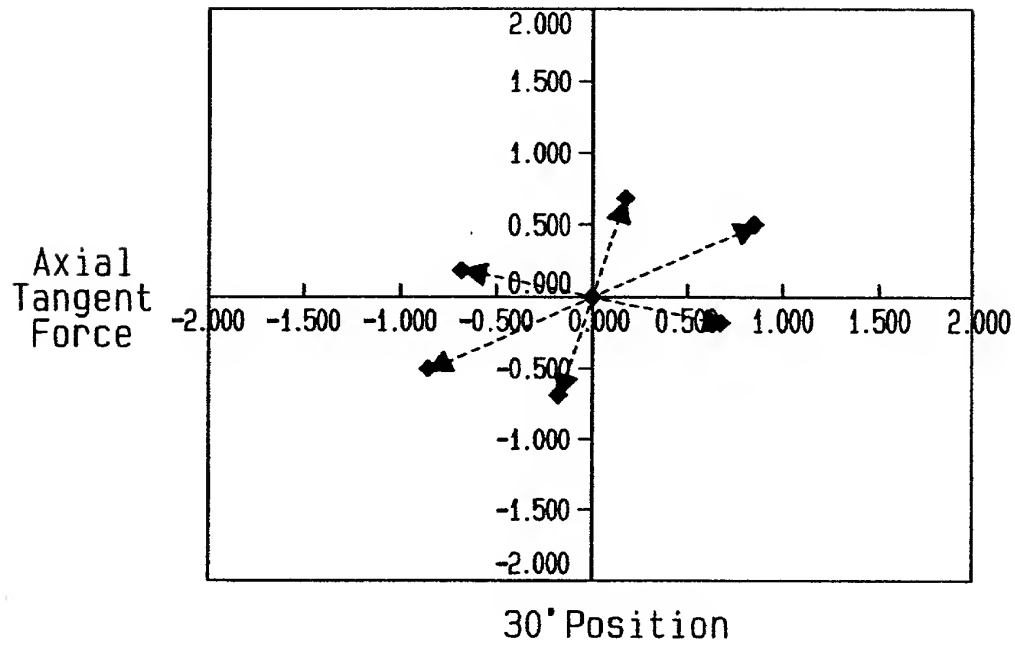
**Fig.19(a)**



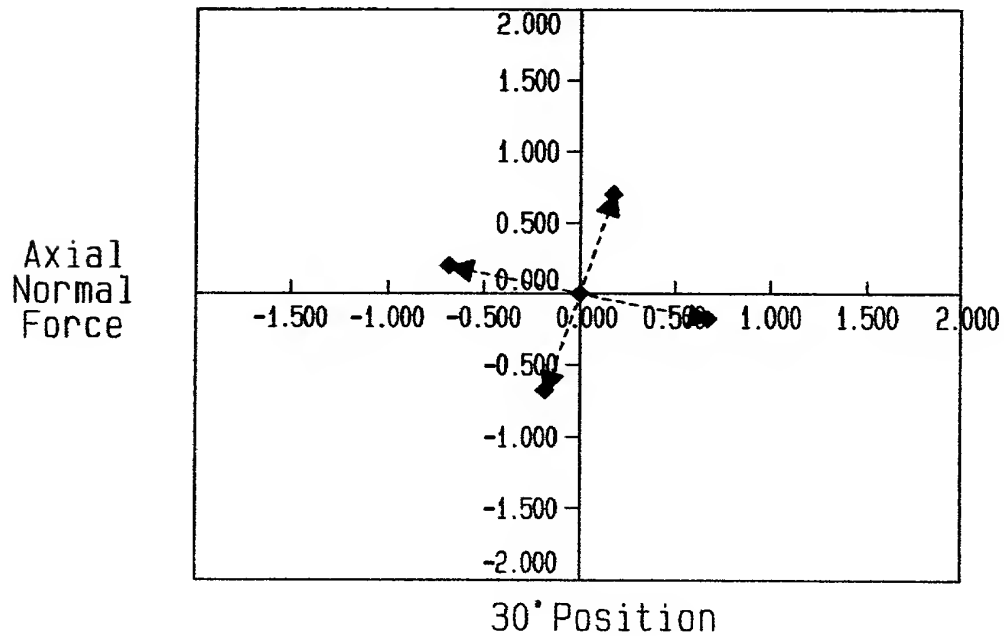
**Fig.19(b)**



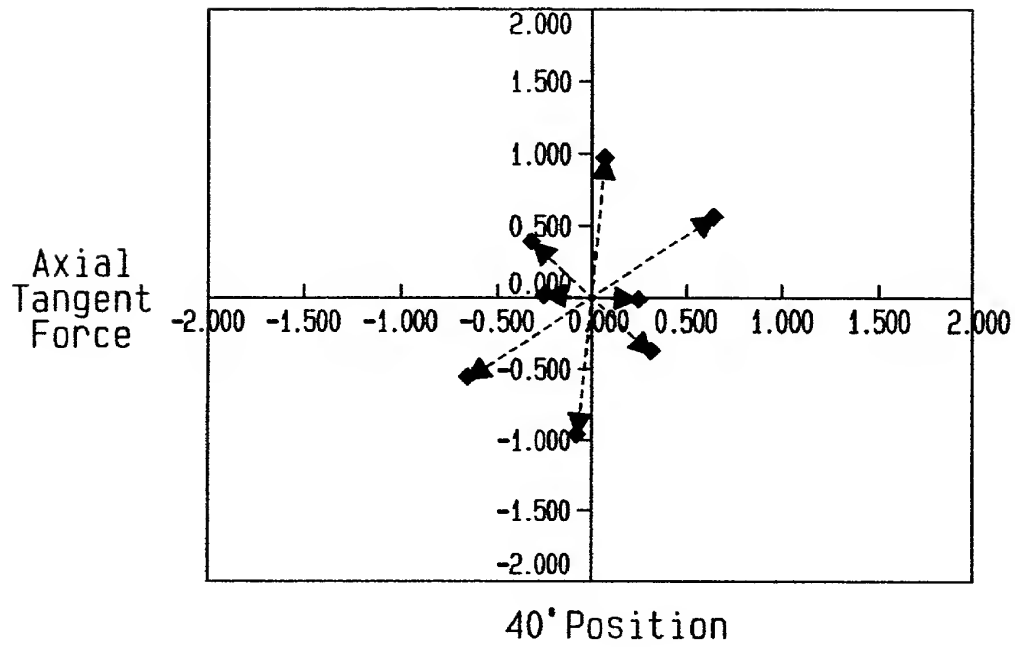
**Fig. 20 (a)**



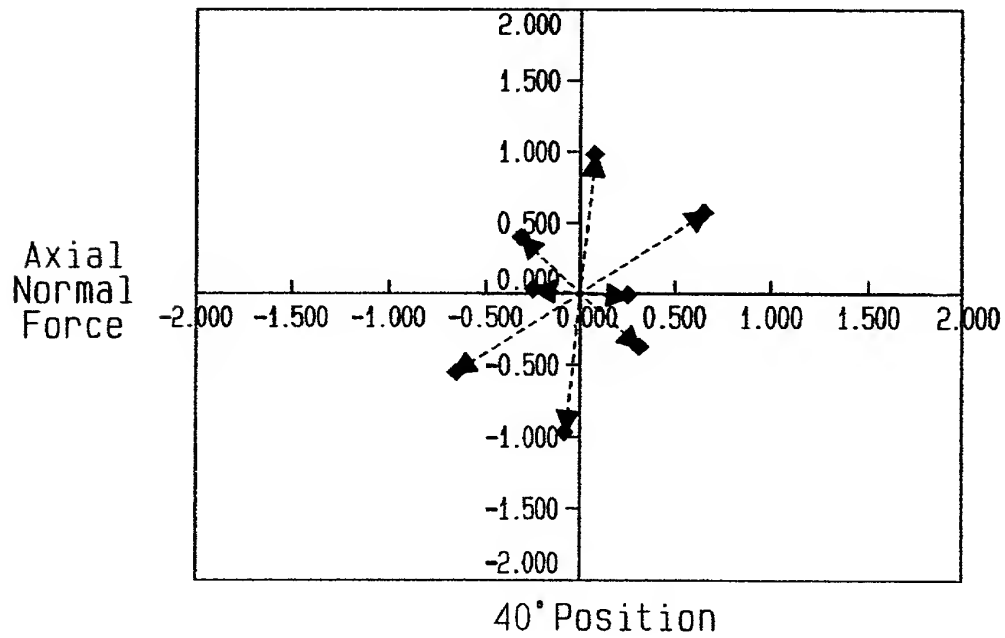
**Fig. 20 (b)**



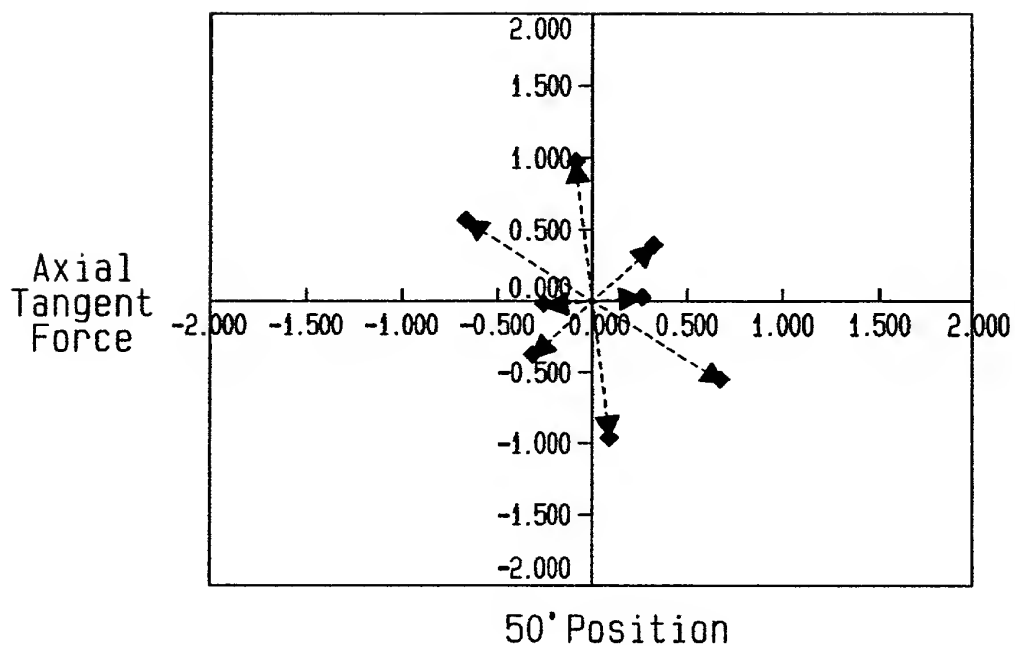
**Fig.21 (a )**



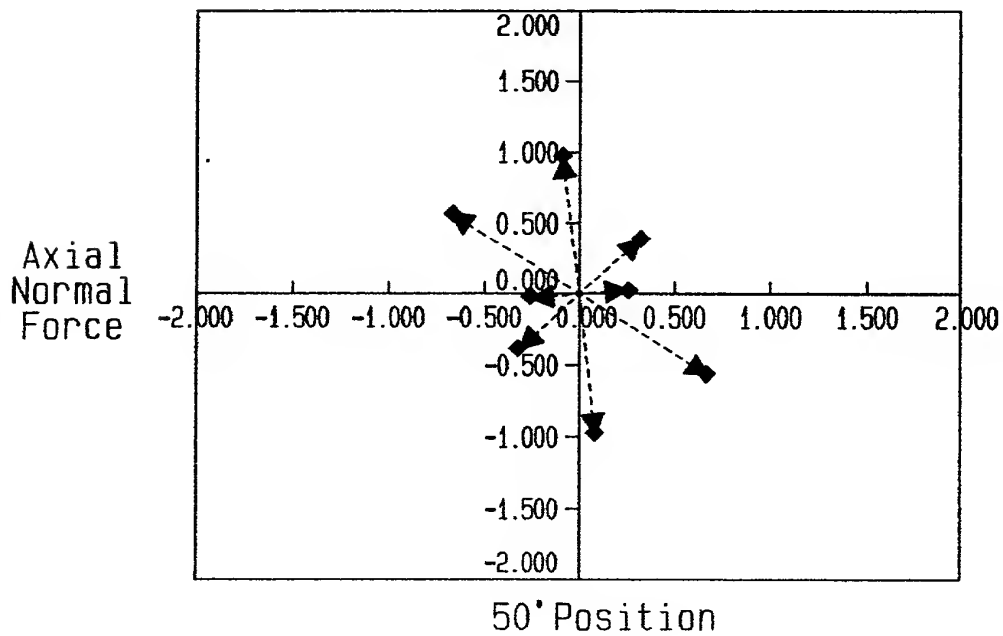
**Fig.21 (b )**



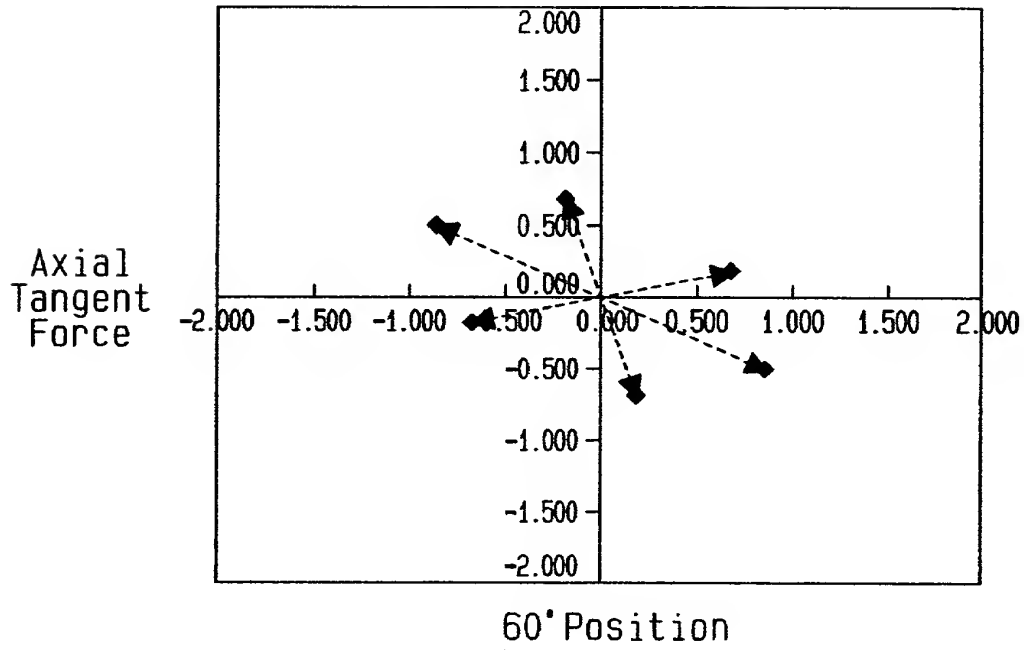
**Fig.22 (a )**



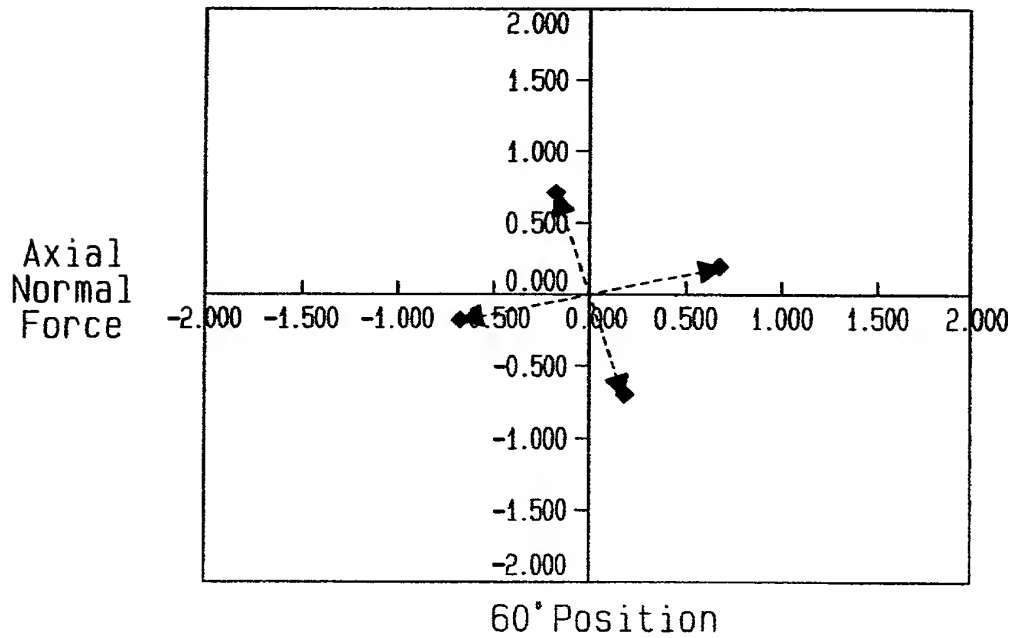
**Fig.22 (b )**



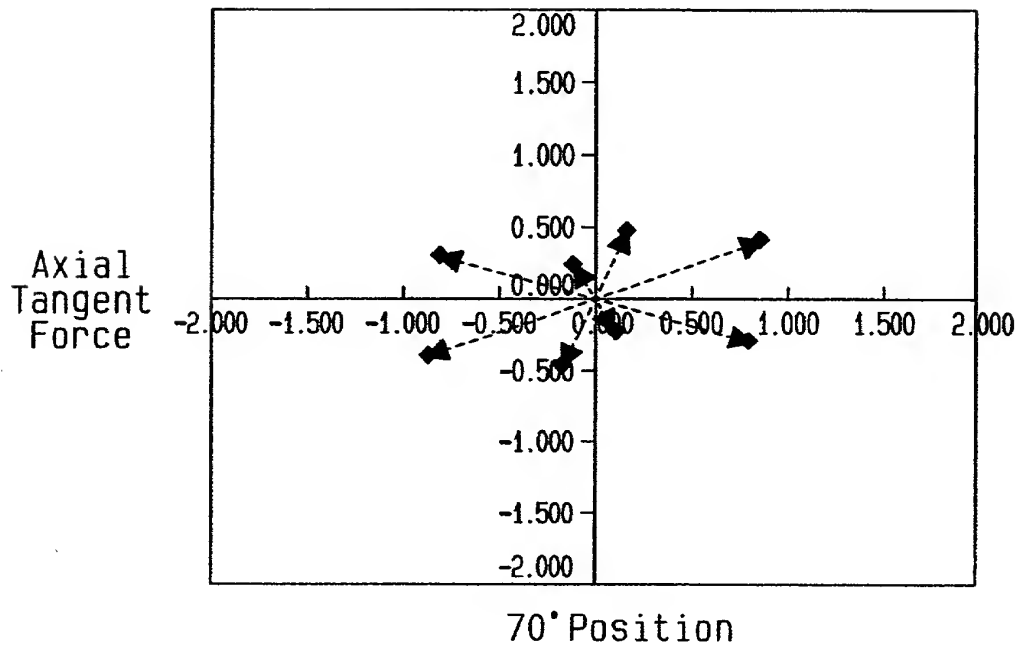
**Fig. 23 (a)**



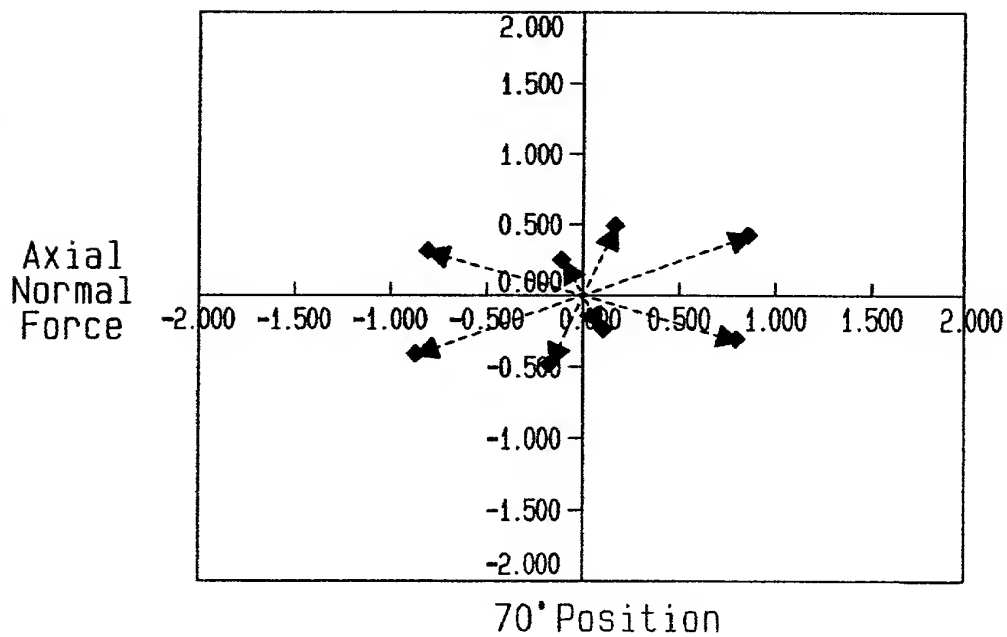
**Fig. 23 (b)**



**Fig.24 (a )**

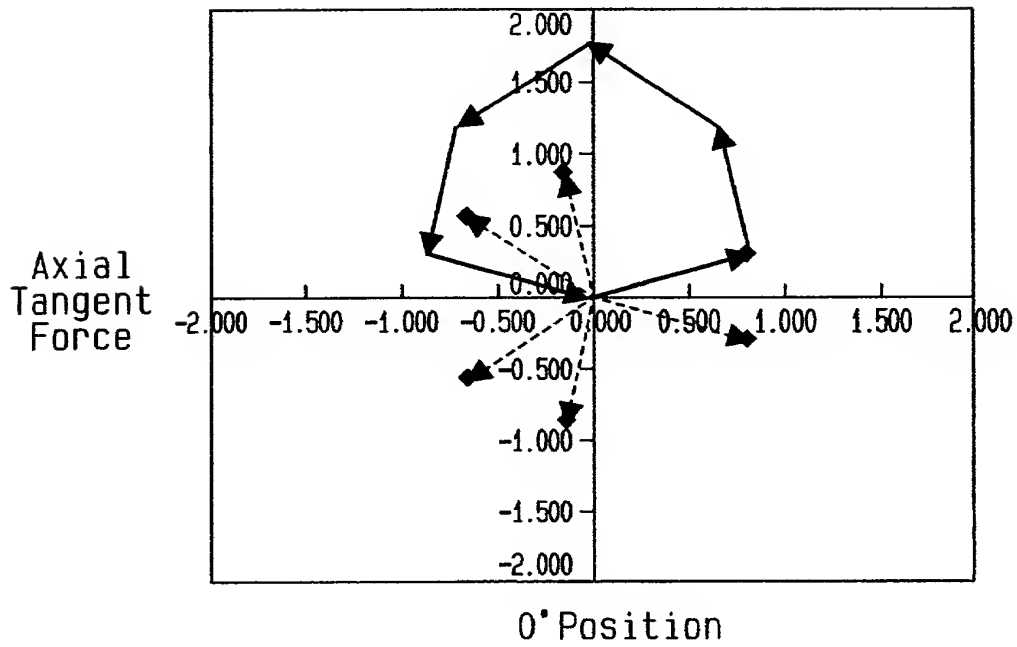


**Fig.24 (b )**

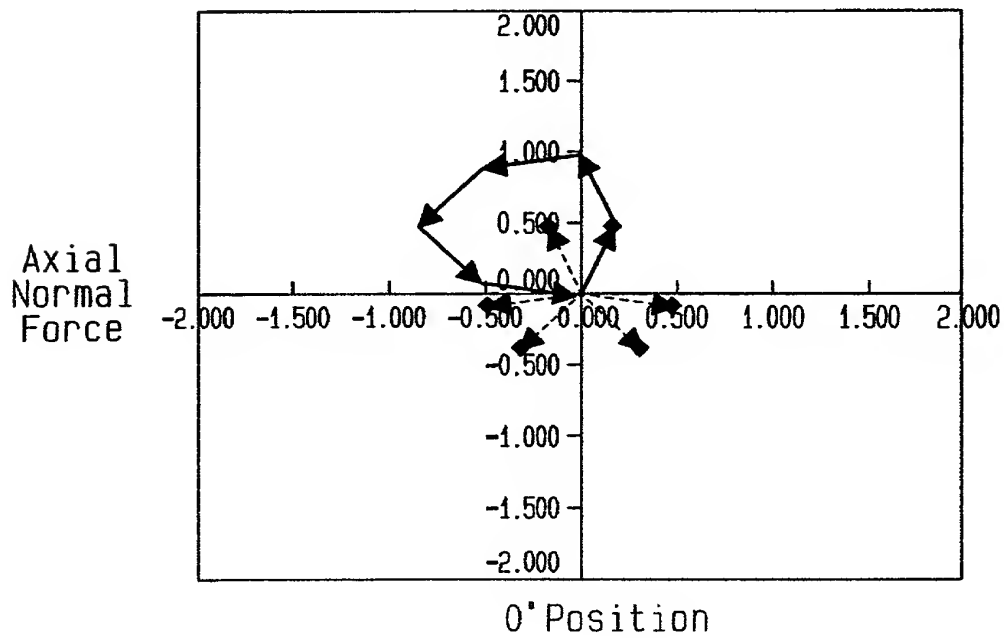




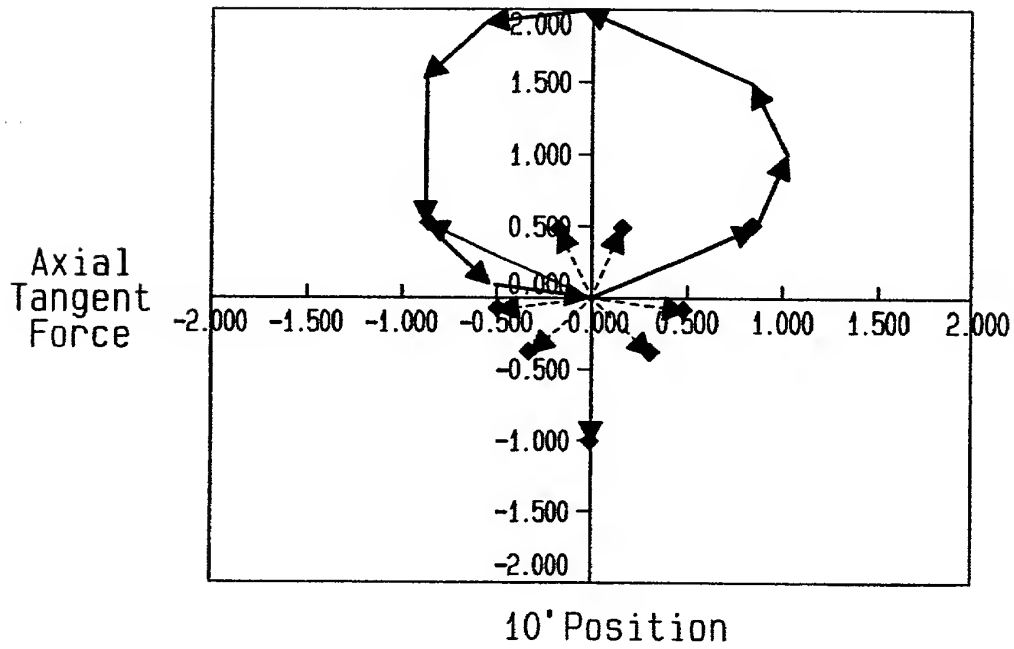
**Fig.25 (a )**



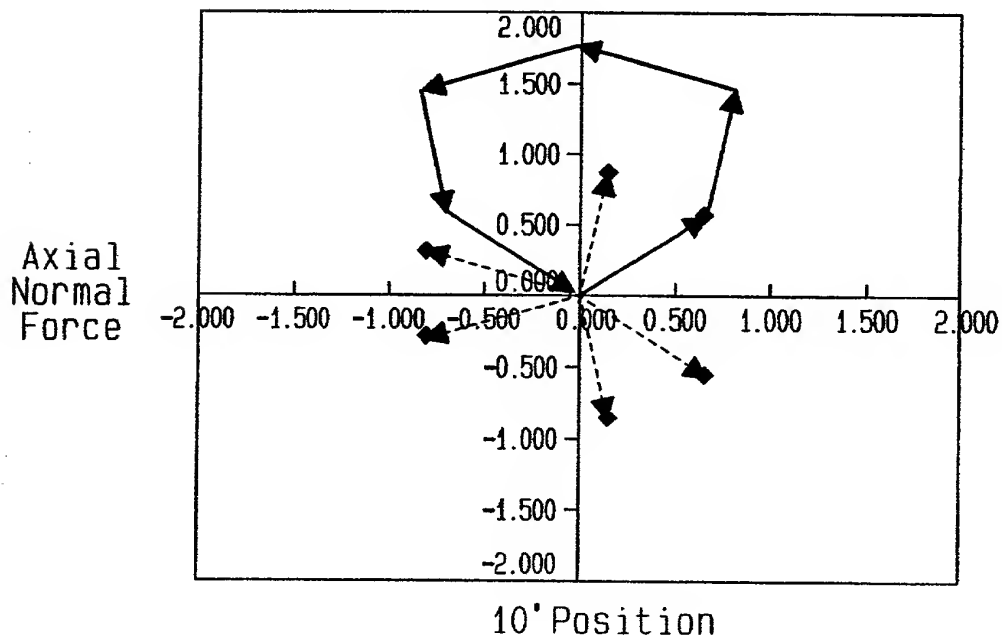
**Fig.25 (b )**



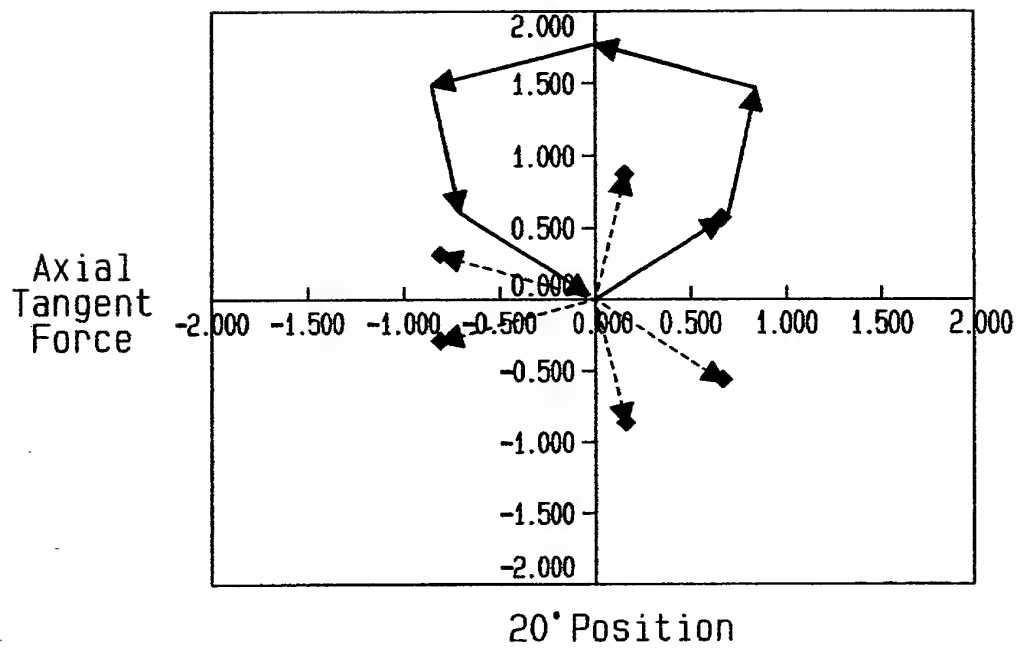
**Fig. 26 (a)**



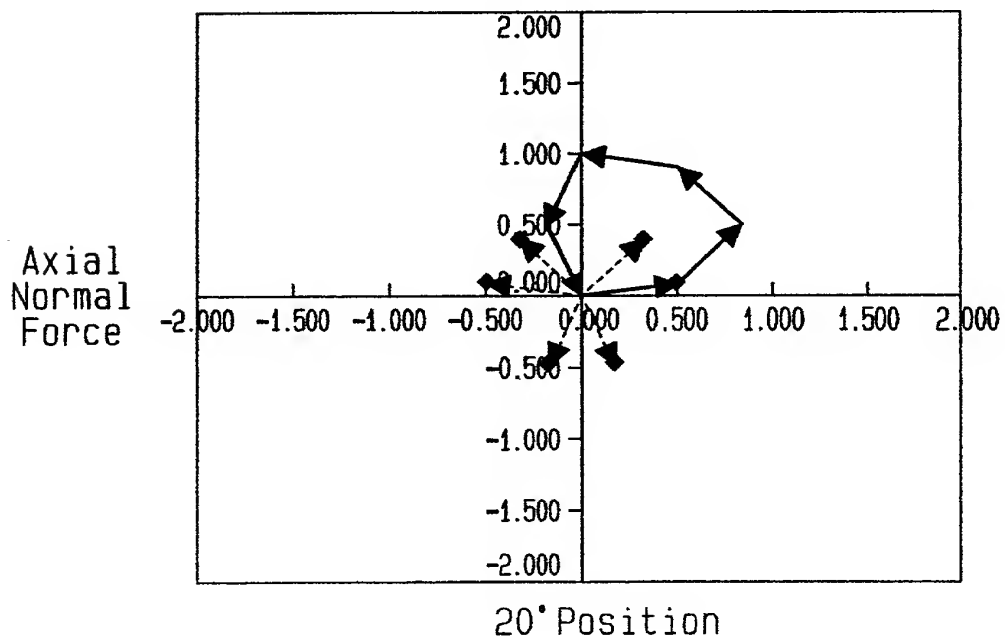
**Fig. 26 (b)**



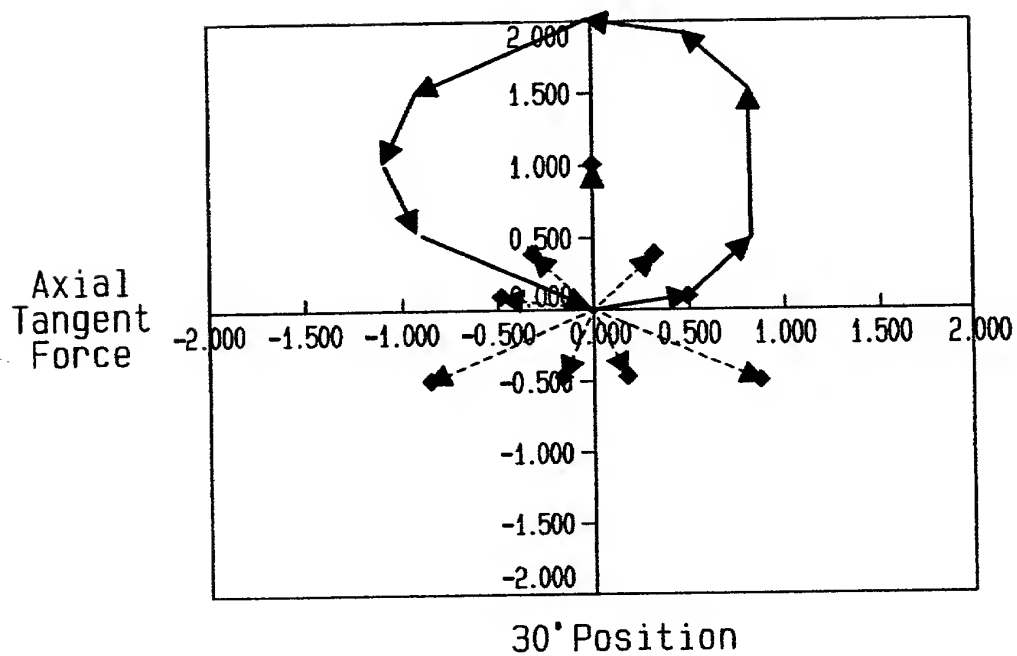
**Fig.27 (a)**



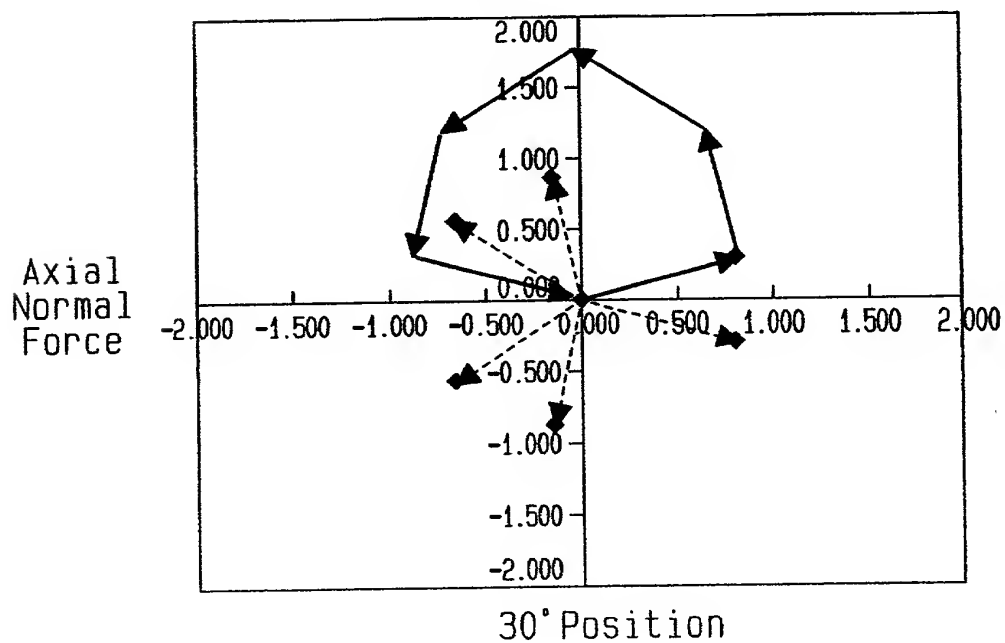
**Fig.27 (b)**



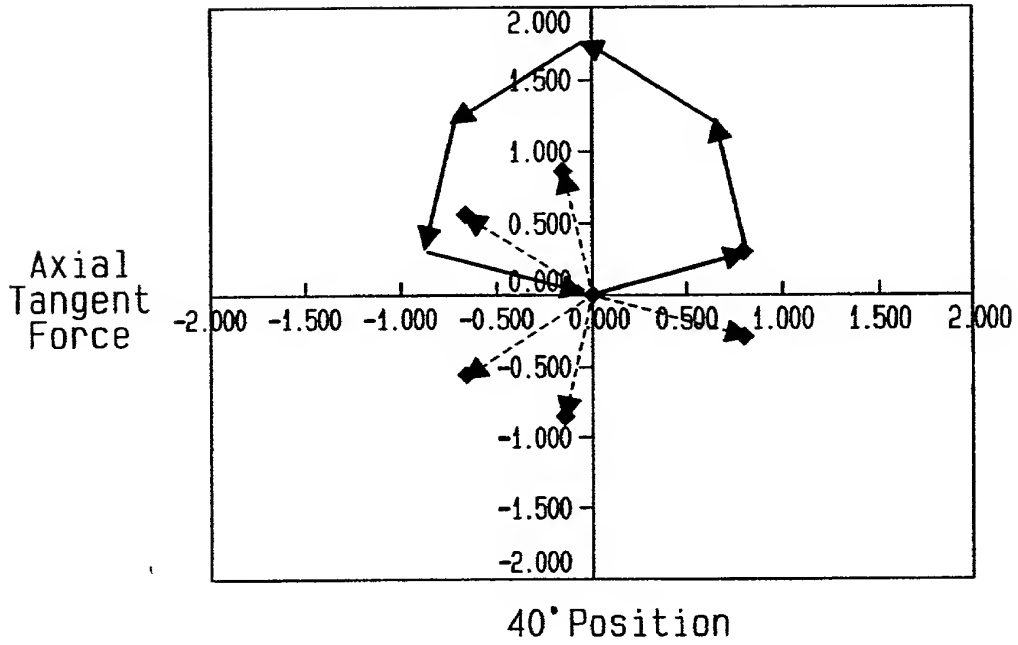
**Fig.28 (a )**



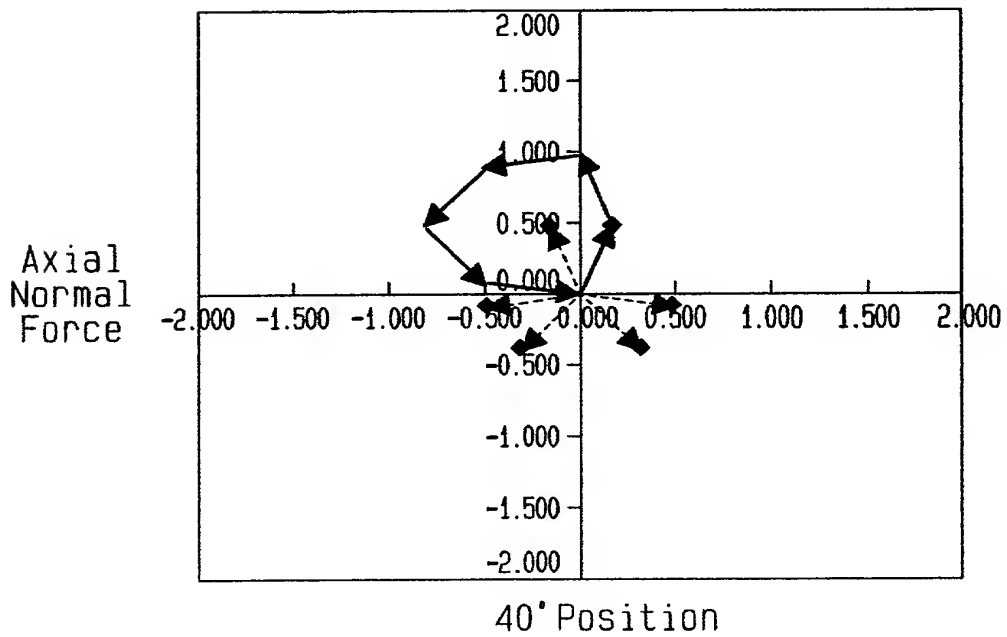
**Fig.28 (b )**



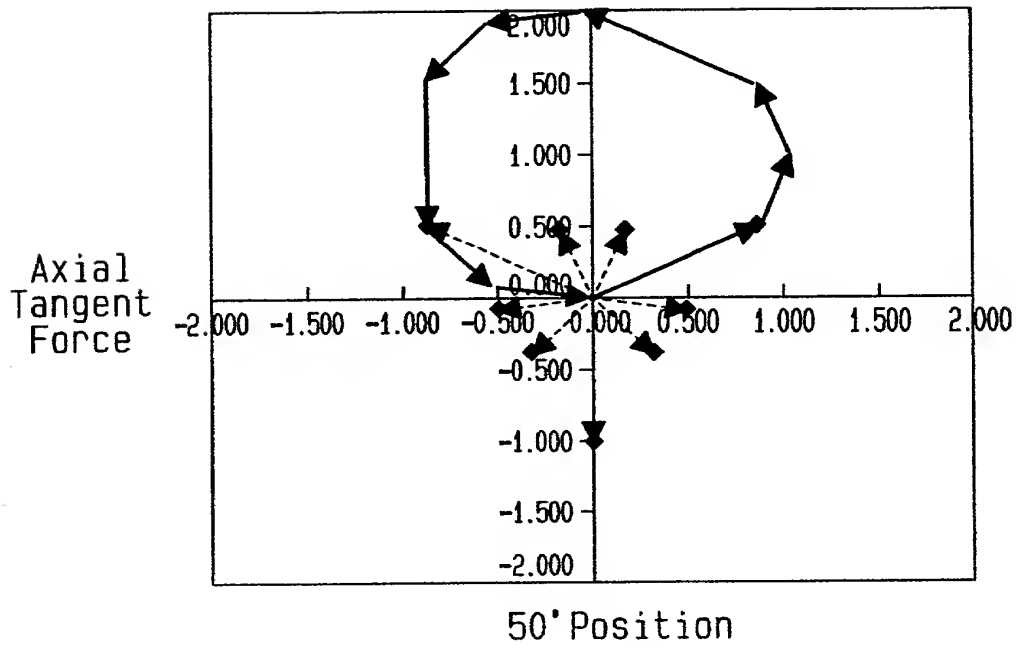
# Fig. 29 (a)



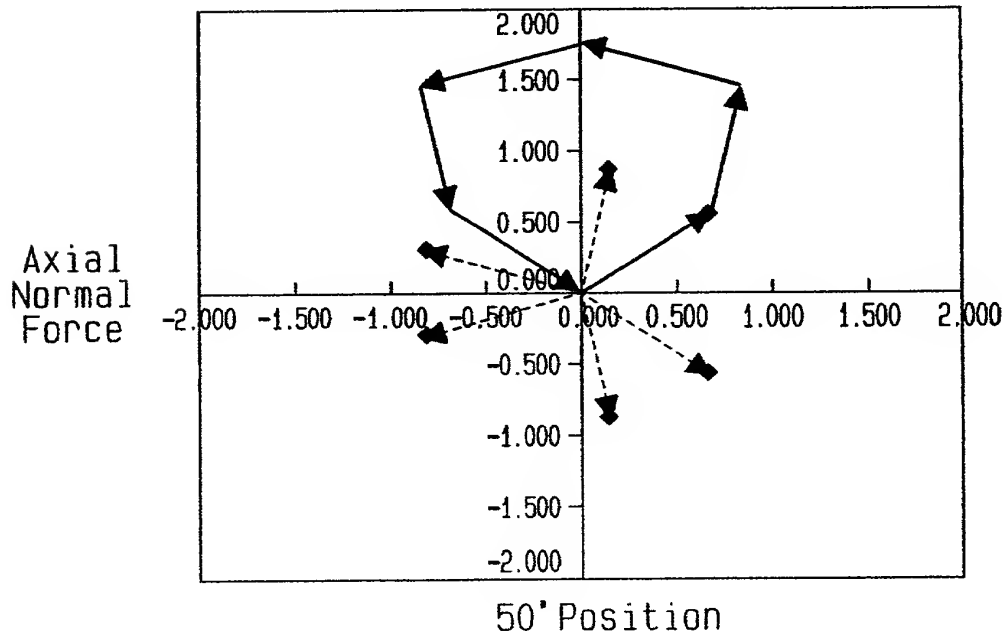
# Fig. 29 (b)



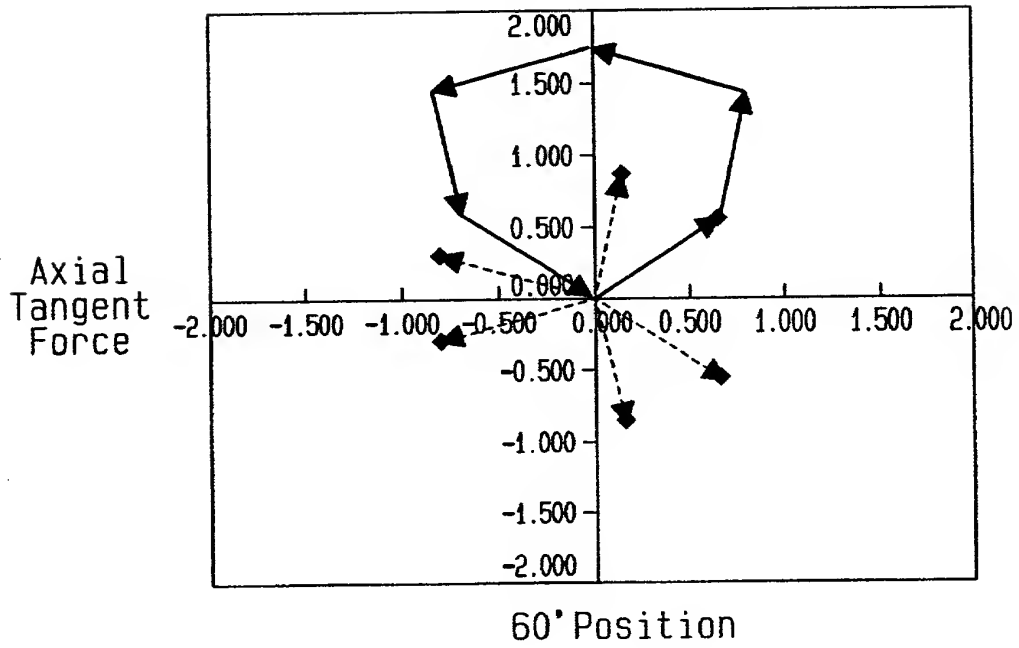
**Fig. 30 (a)**



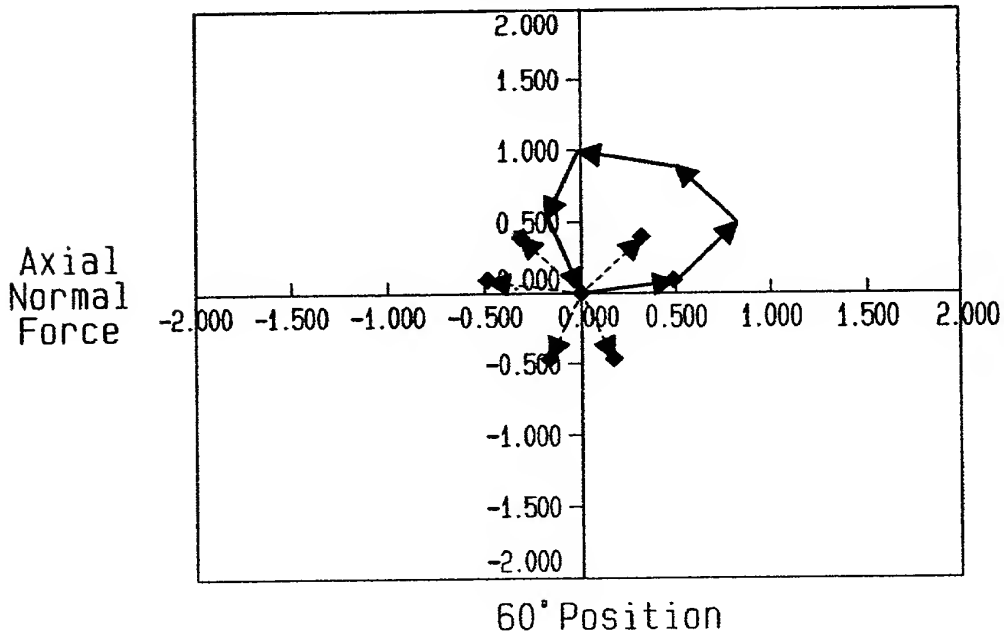
**Fig. 30 (b)**



**Fig. 31 (a)**



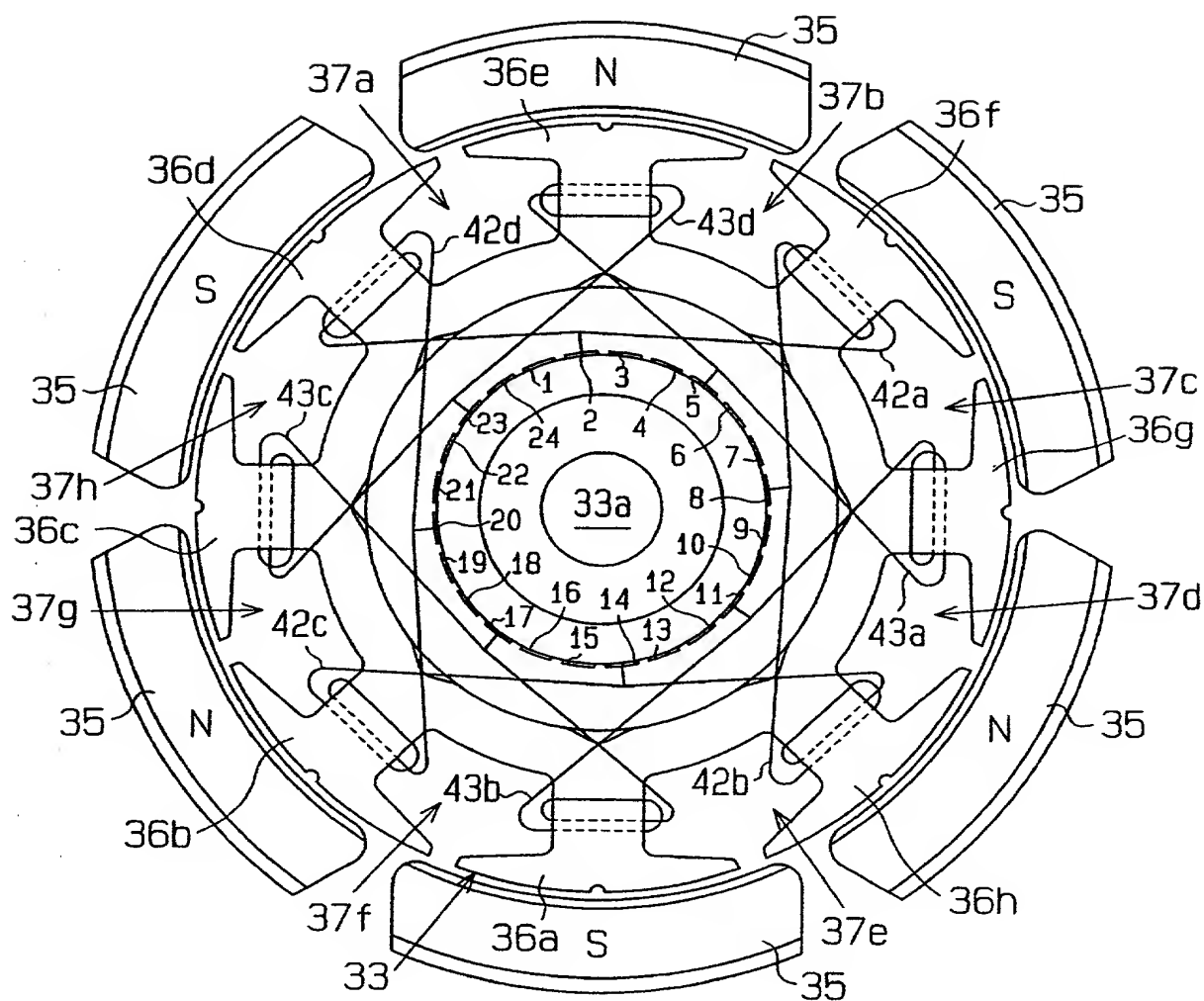
**Fig. 31 (b)**



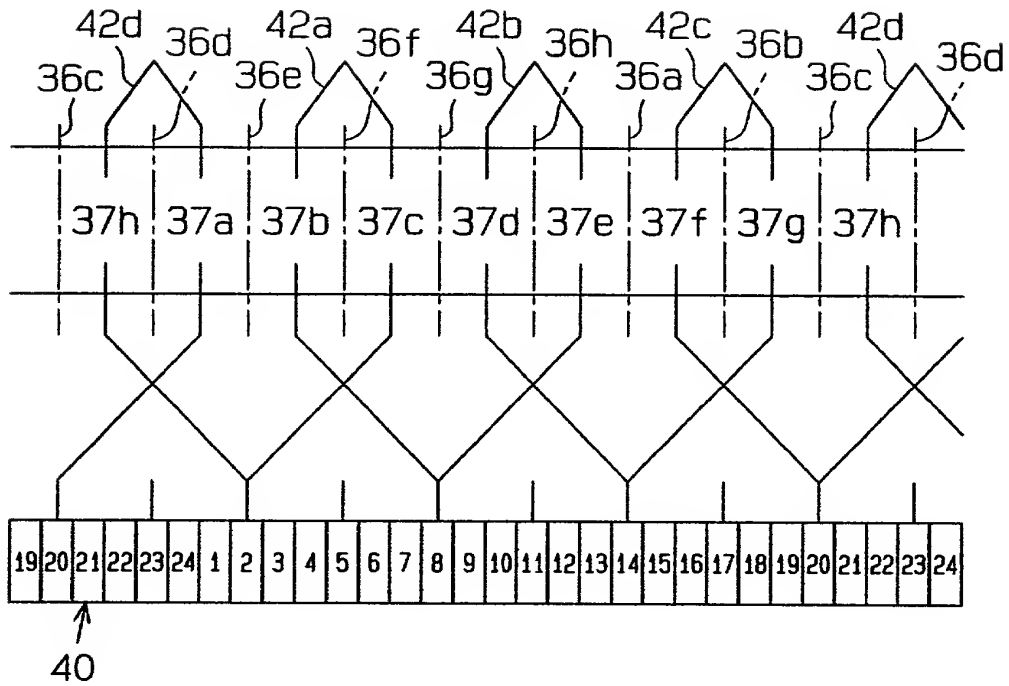




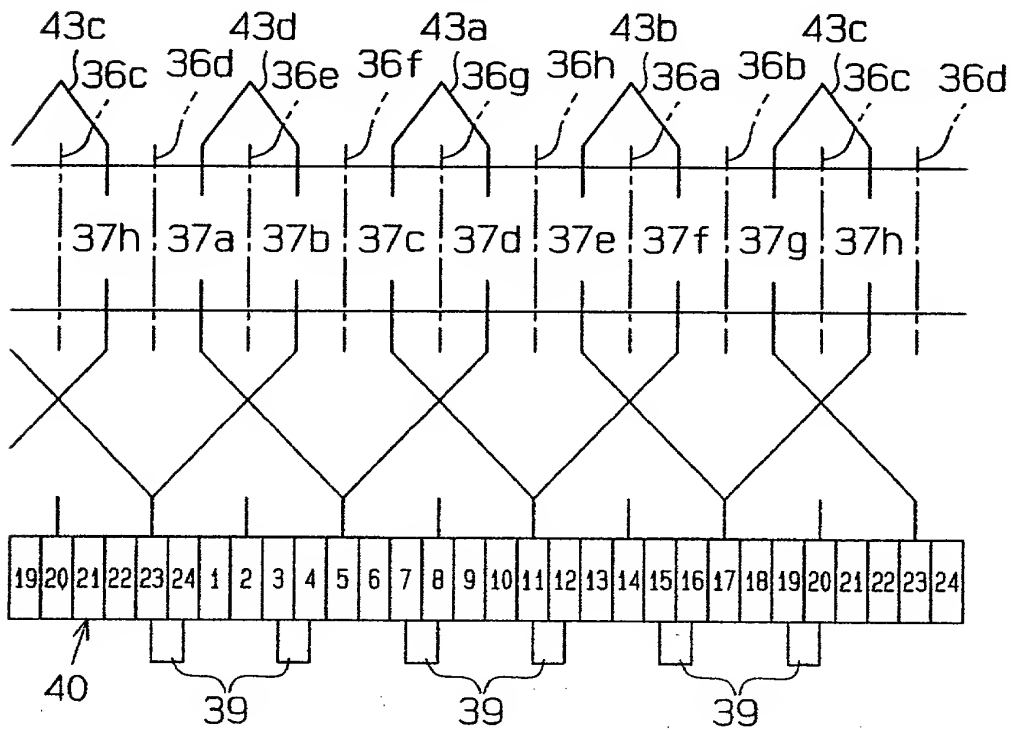
**Fig. 33**



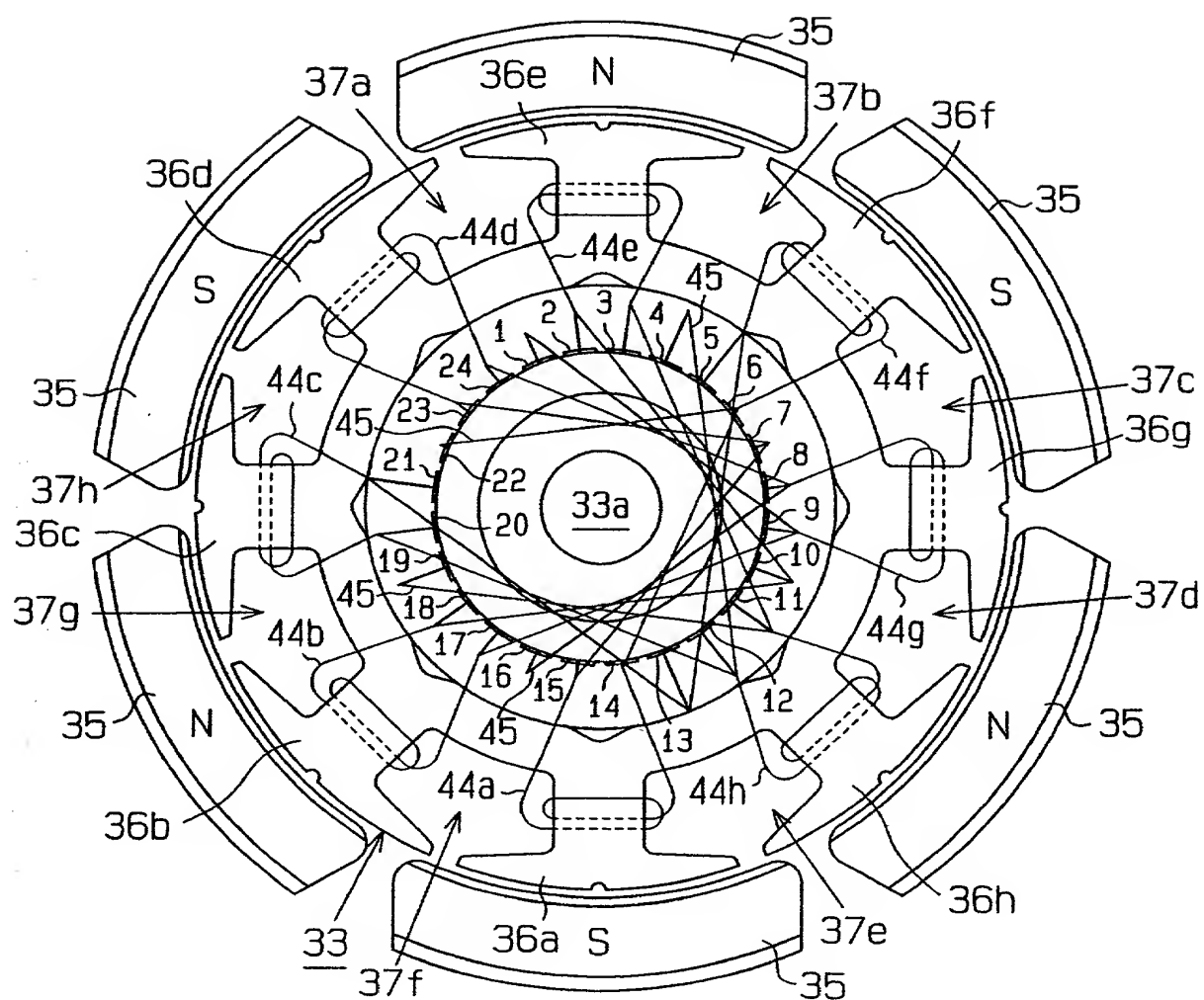
# Fig. 34



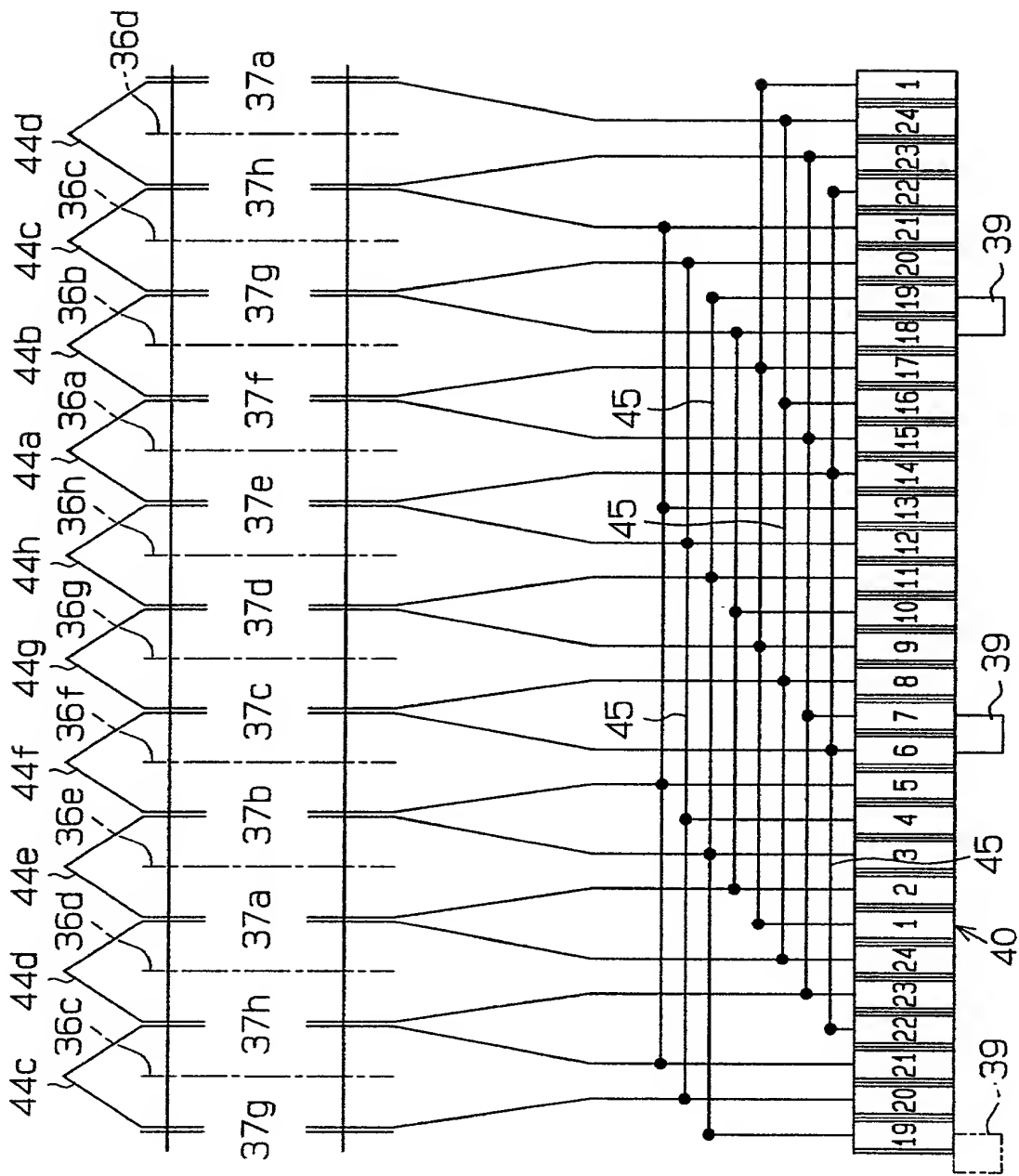
# Fig. 35



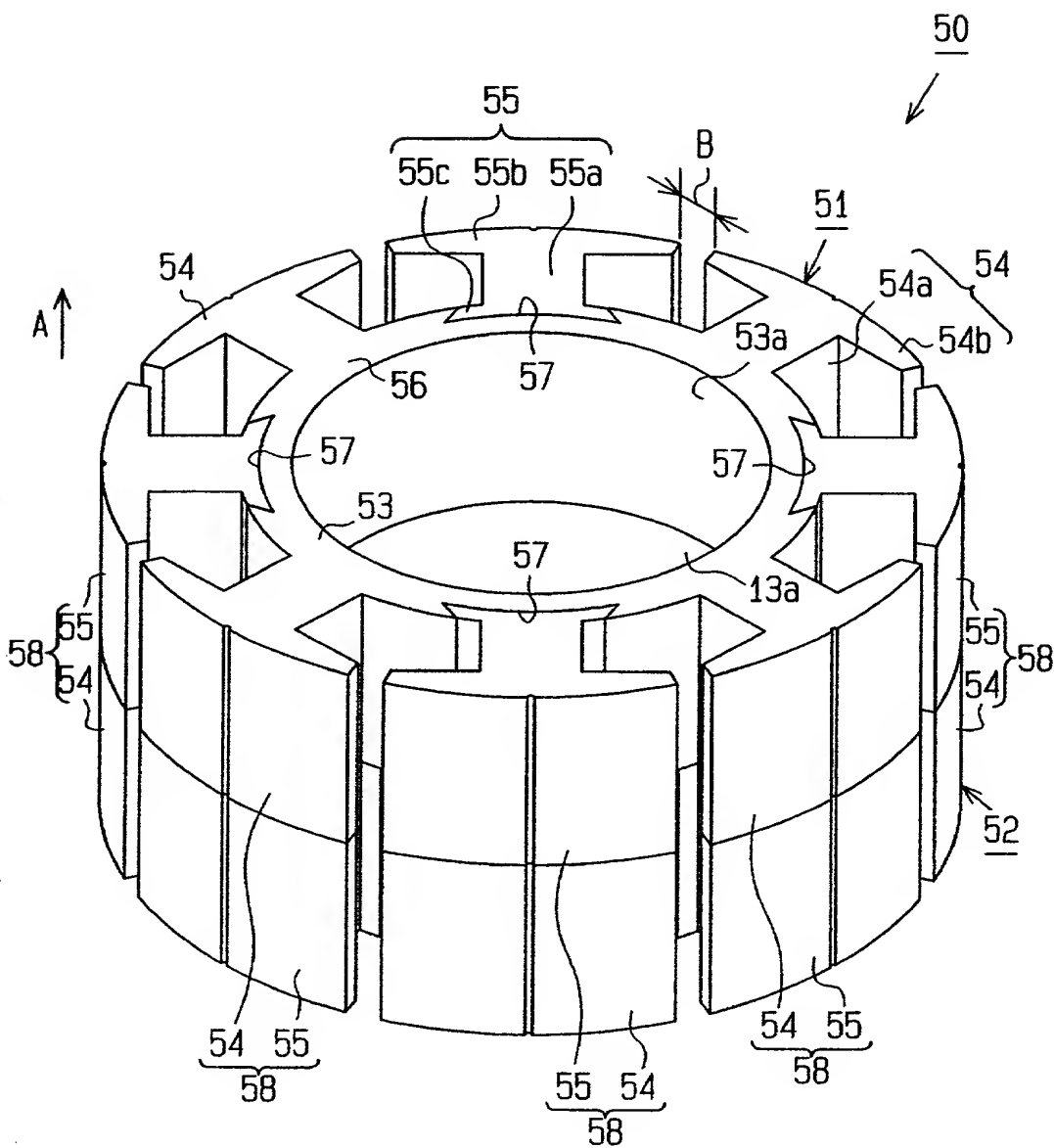
**Fig. 36**



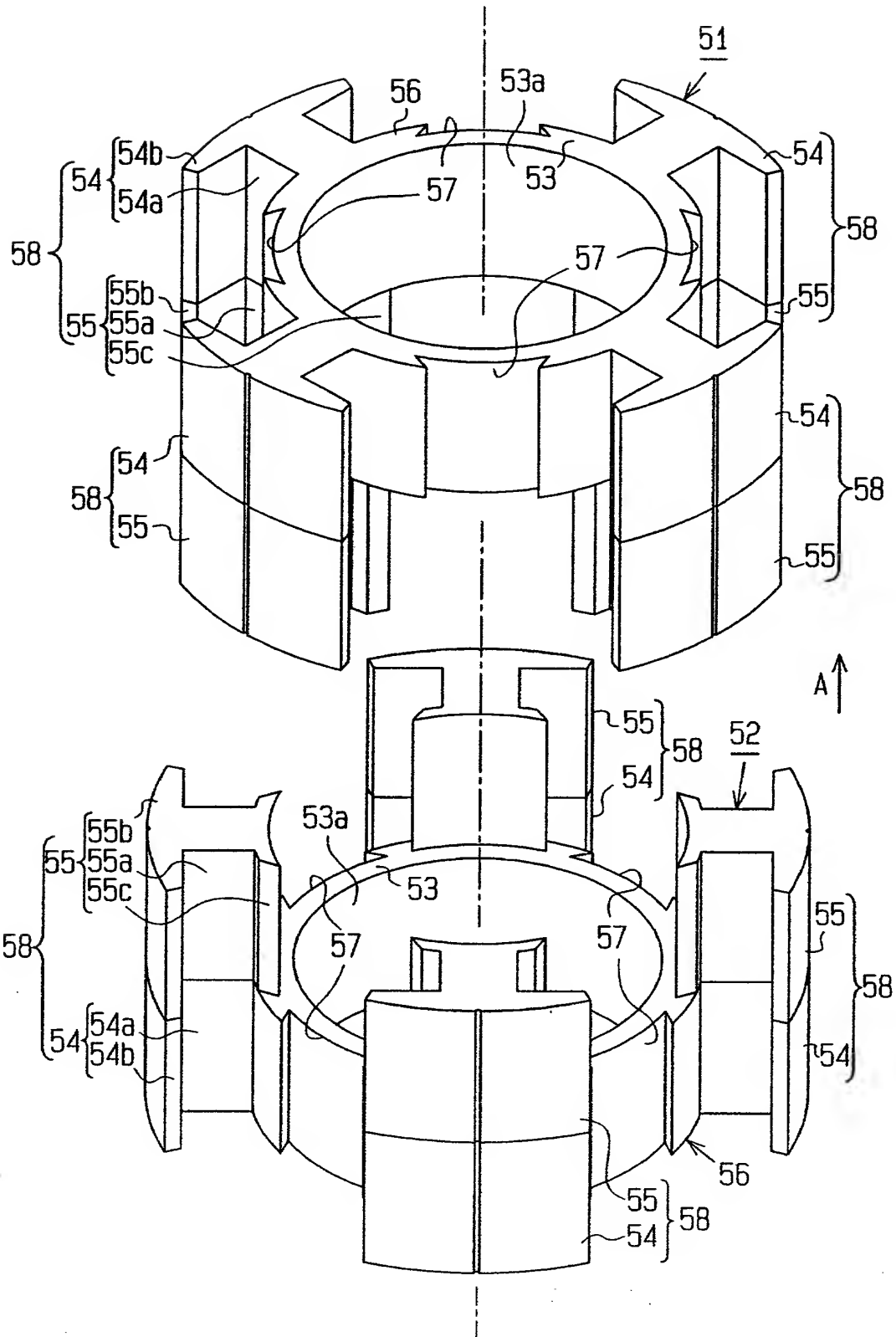
**Fig. 37**



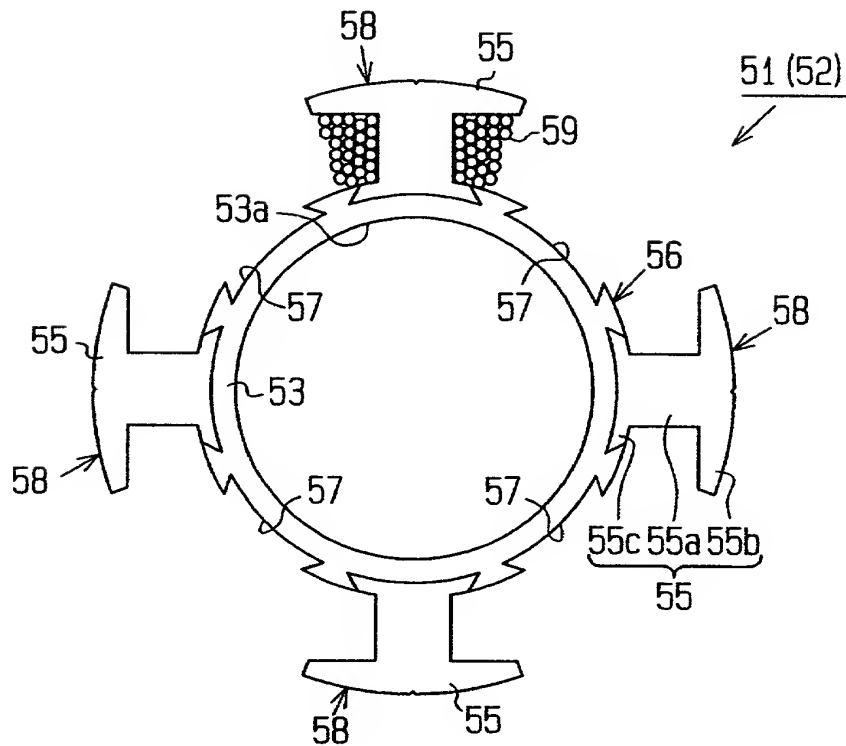
**Fig. 38**



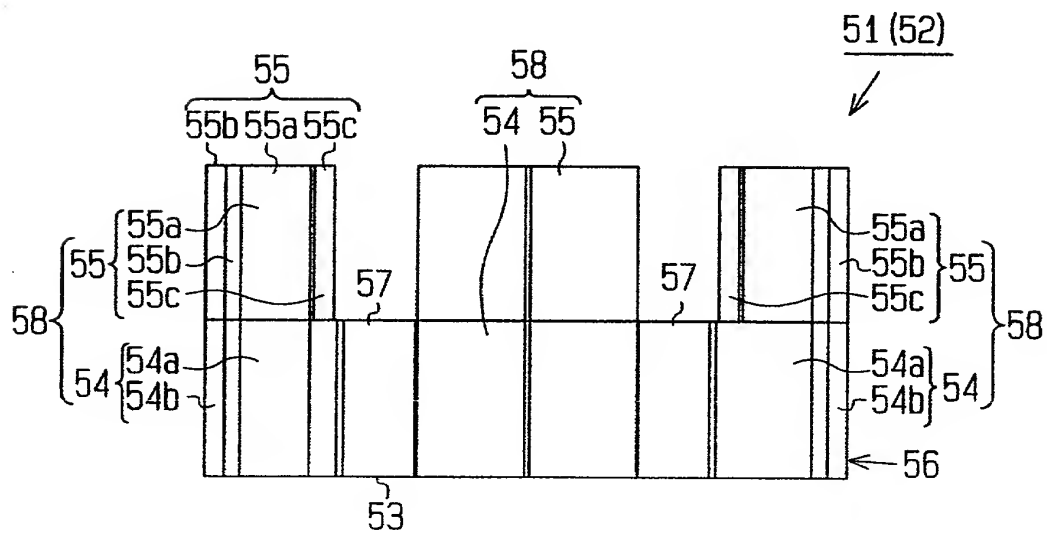
**Fig. 39**



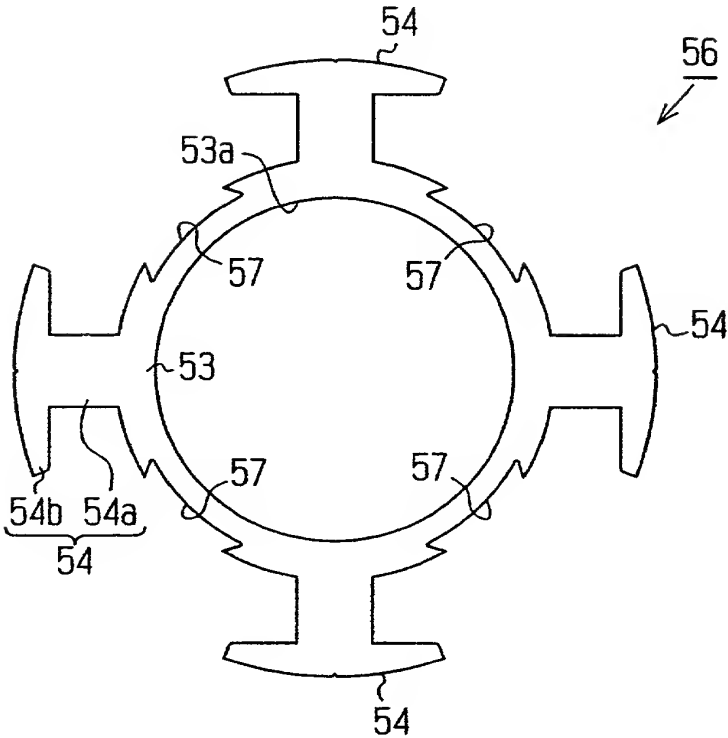
# Fig. 40



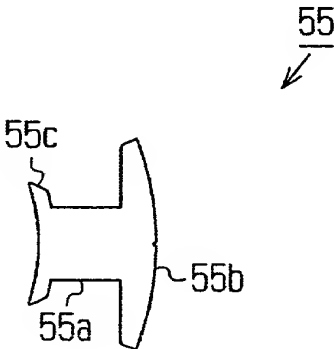
# Fig. 41



**Fig. 42**



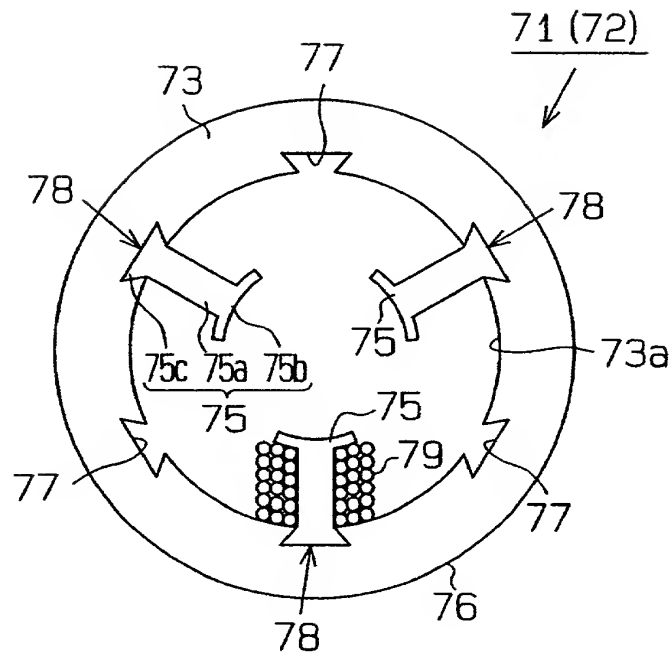
**Fig. 43**



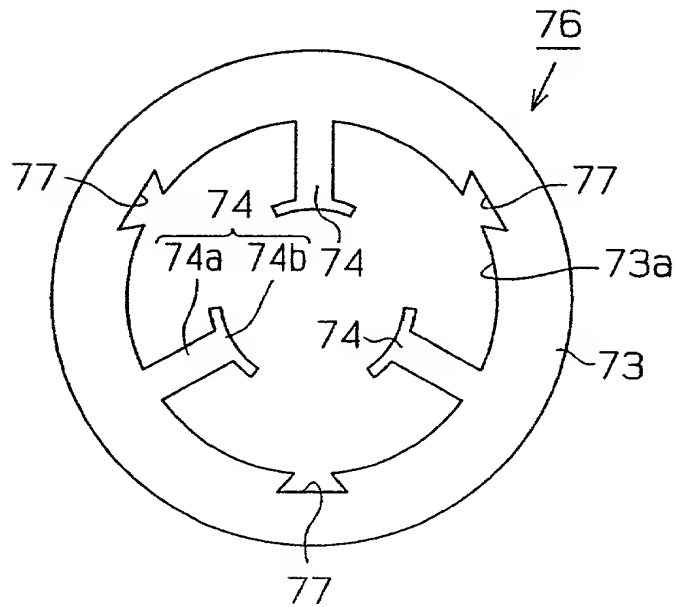




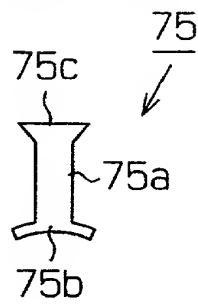
**Fig. 46**



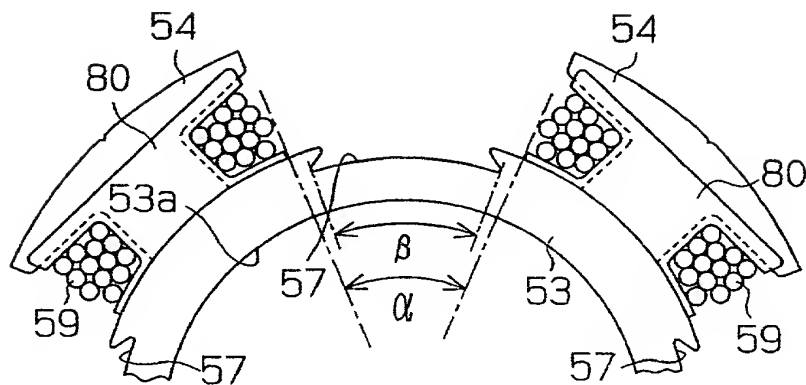
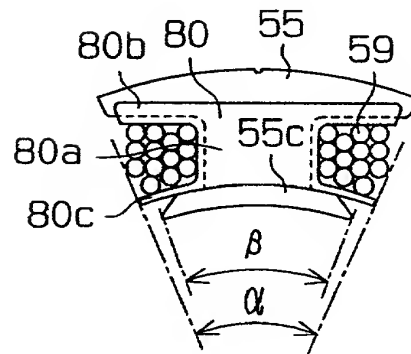
**Fig. 47**



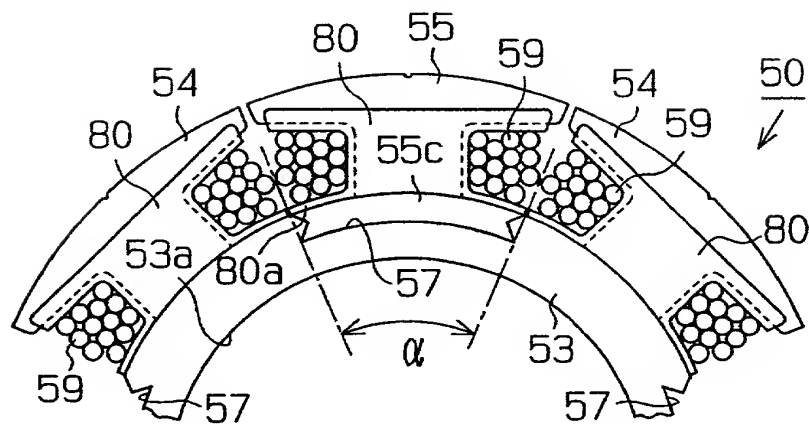
**Fig. 48**



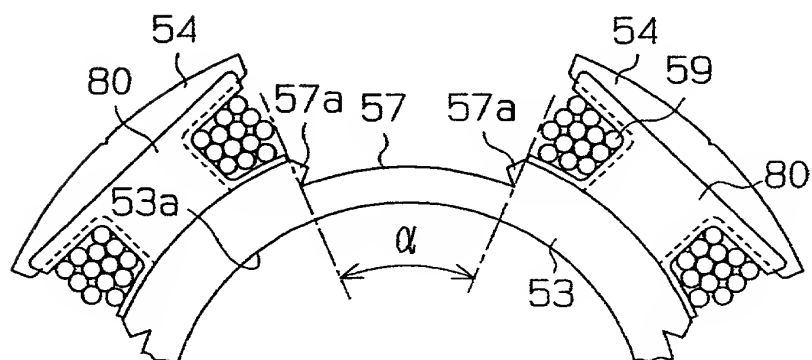
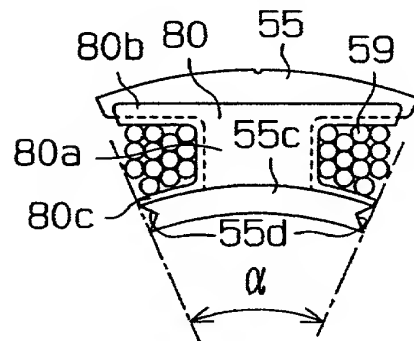
**Fig. 49**



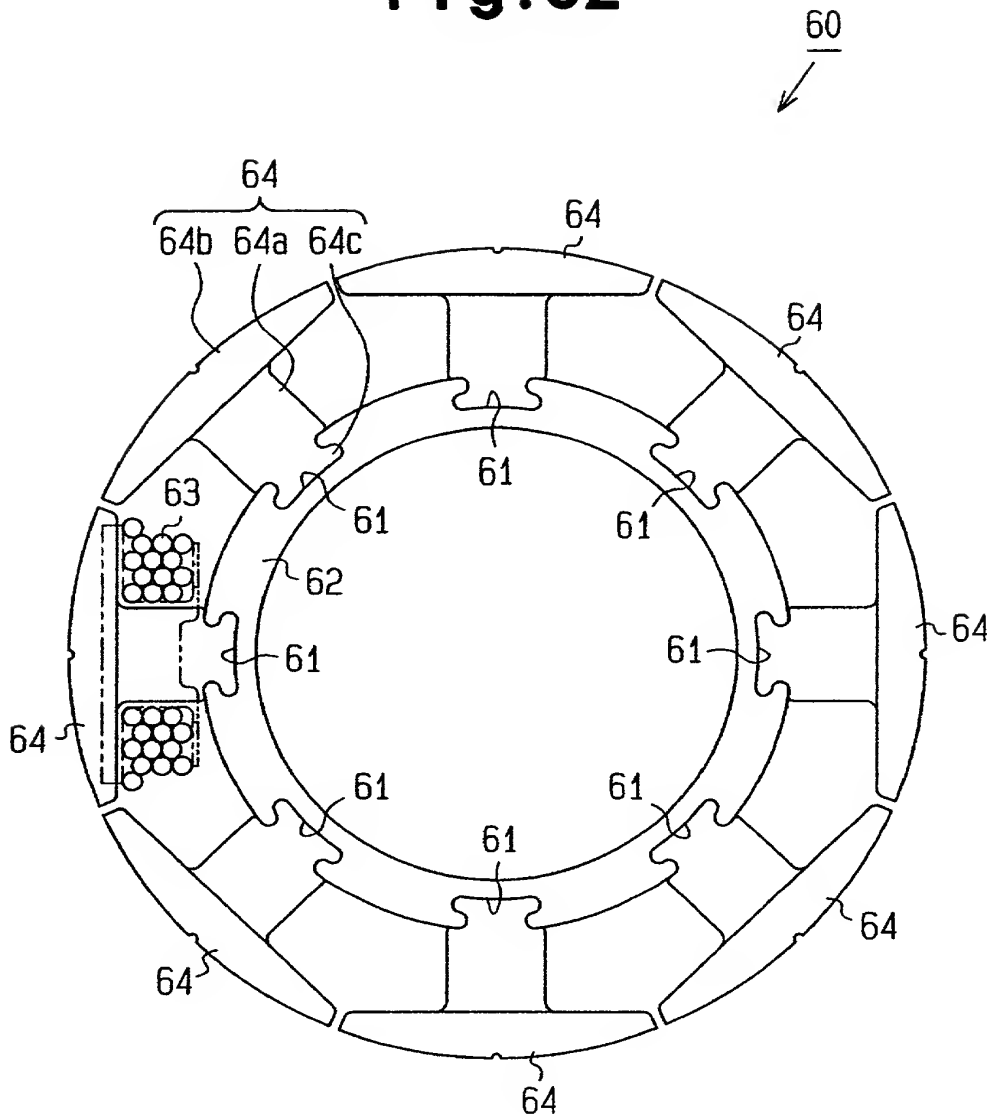
# Fig. 50



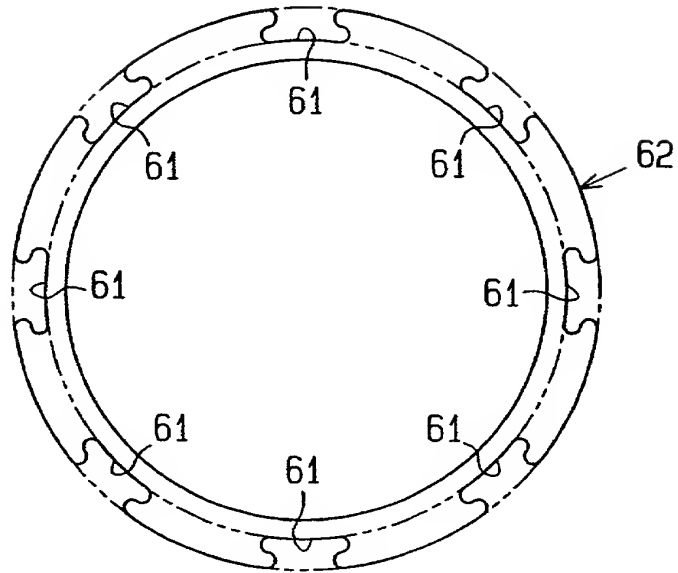
# Fig. 51



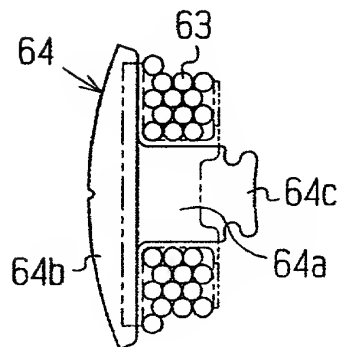
**Fig. 52**



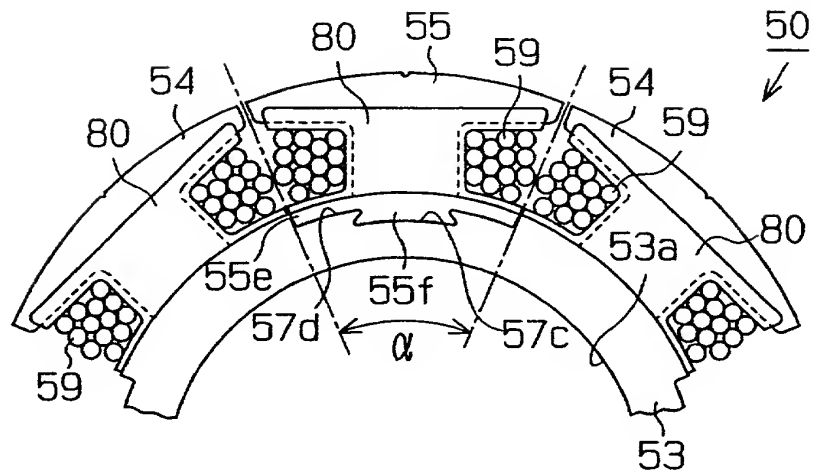
**Fig. 53**



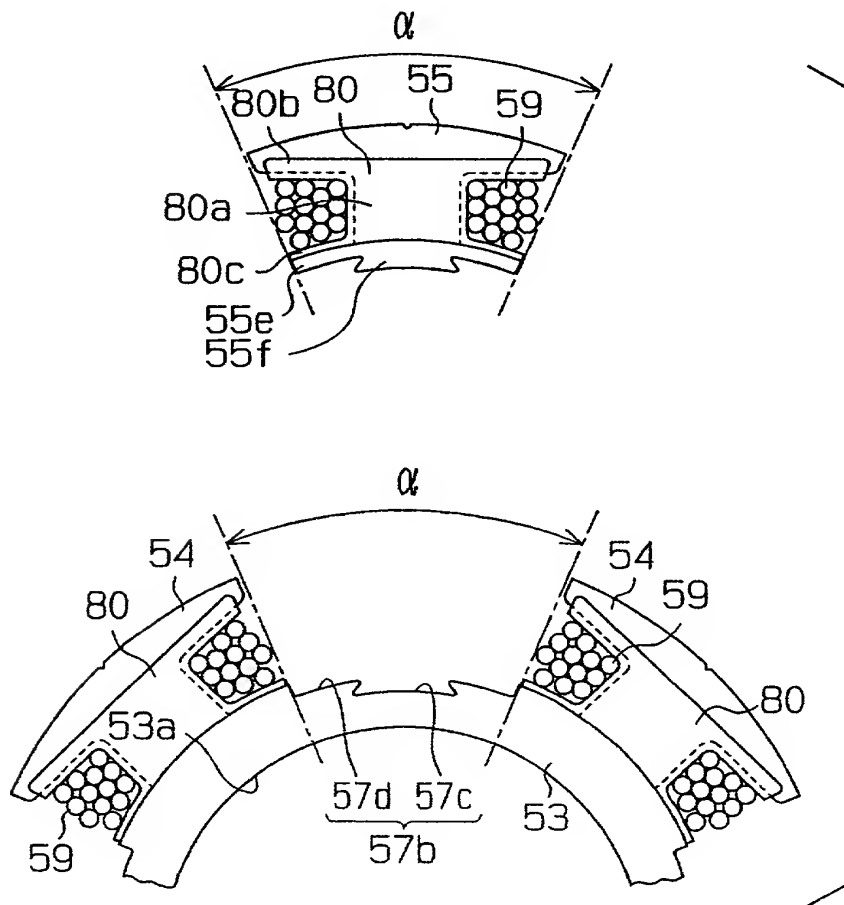
**Fig. 54**



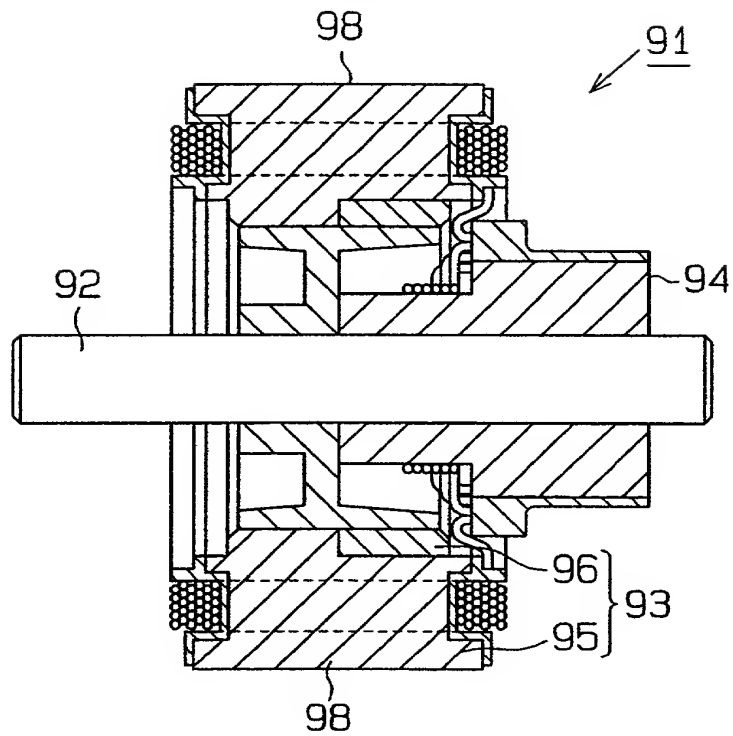
# Fig. 55



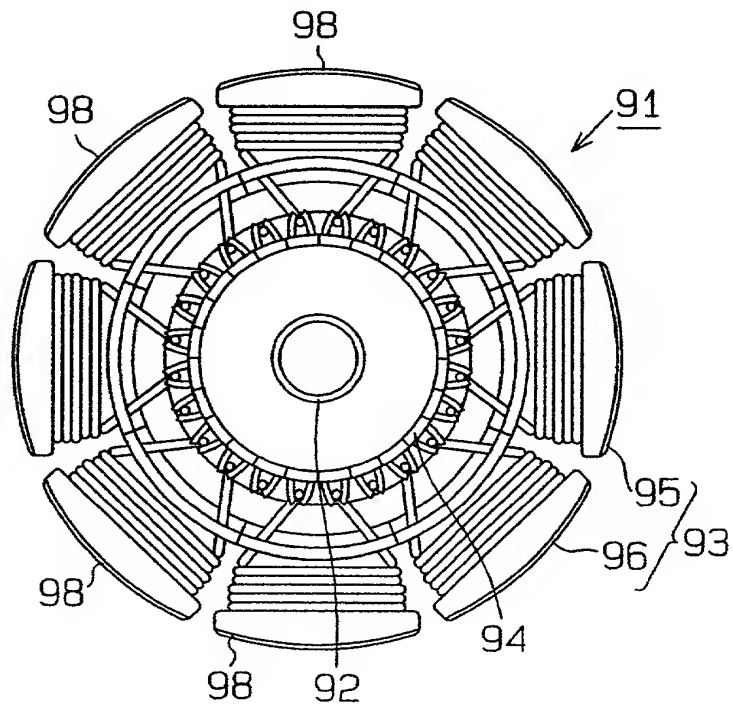
# Fig. 56



**Fig. 57**

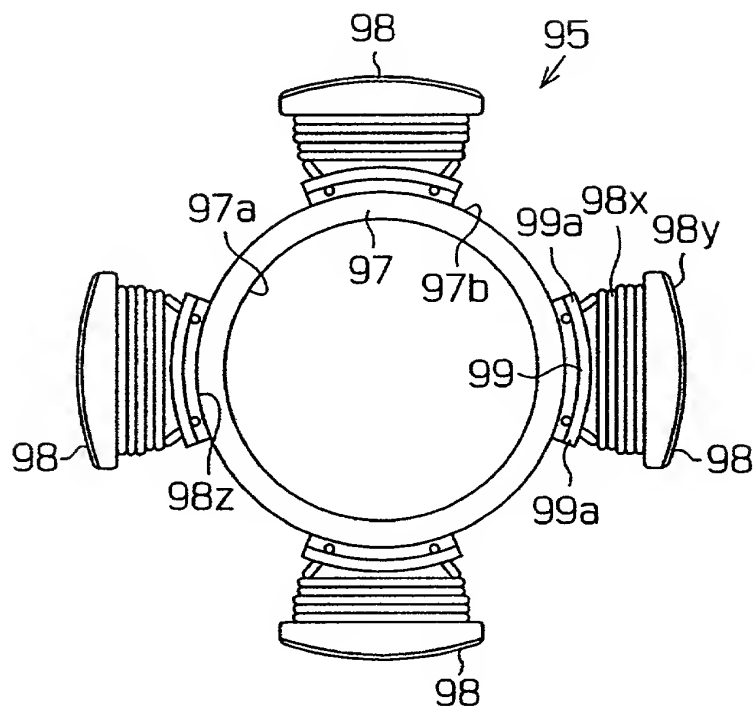


**Fig. 58**

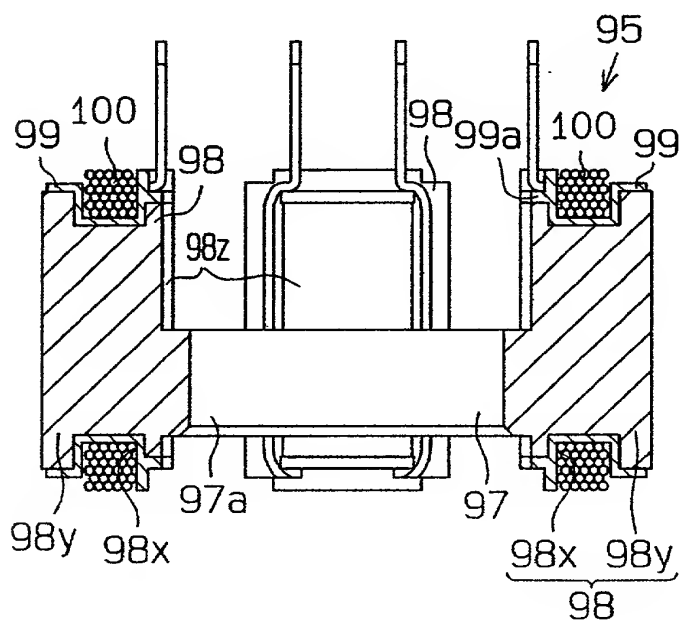


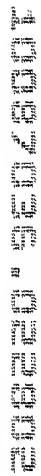
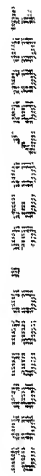


**Fig. 59 (a)**

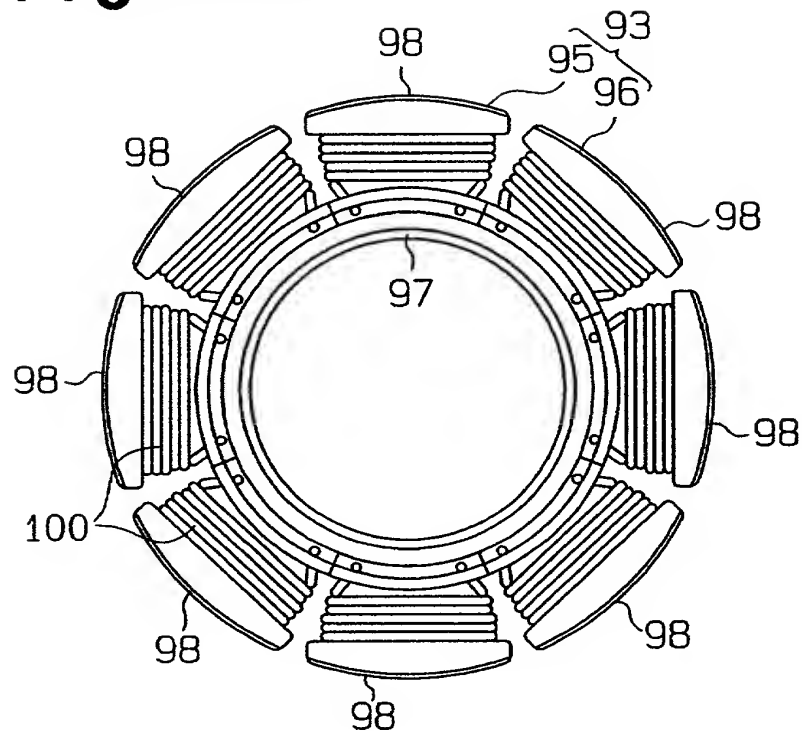


**Fig. 59 (b)**

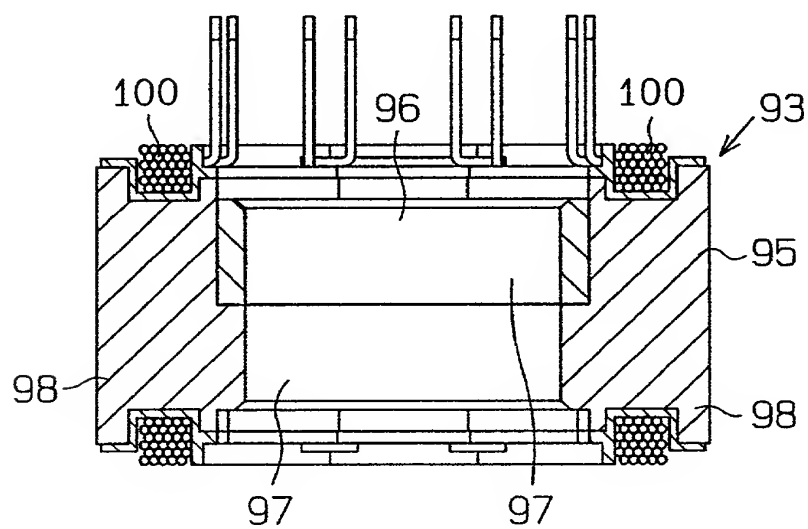


[illegible][illegible]

**Fig. 61 (a)**

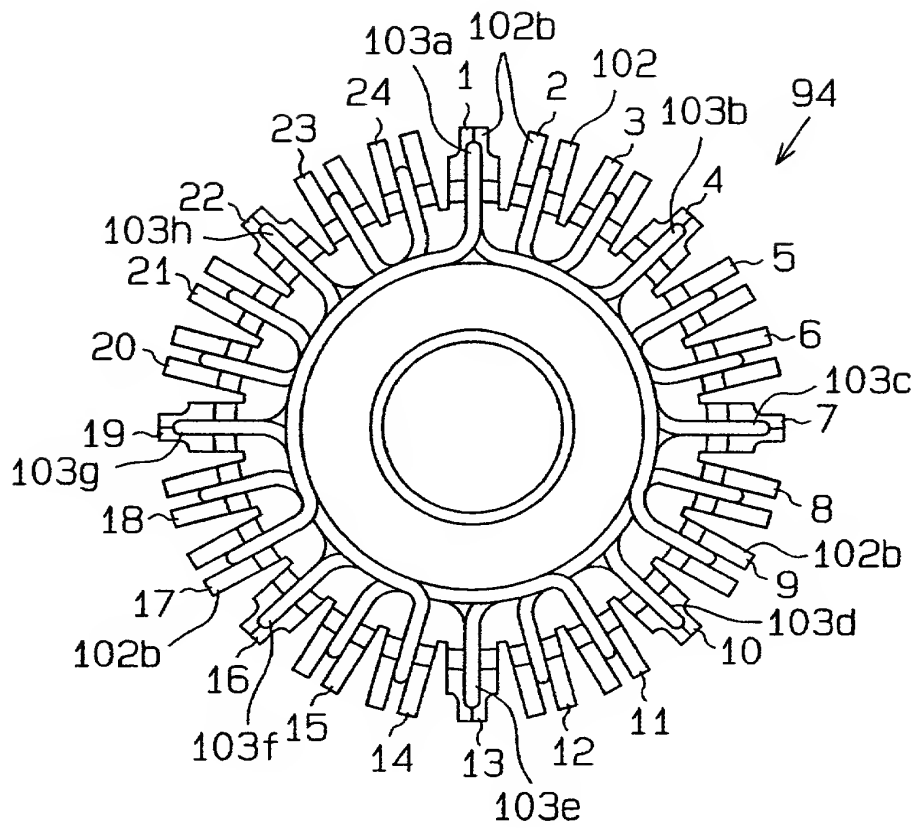


**Fig. 61 (b)**

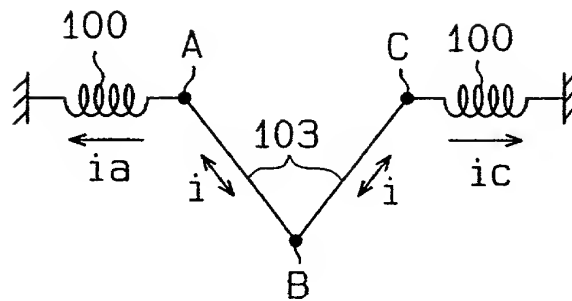




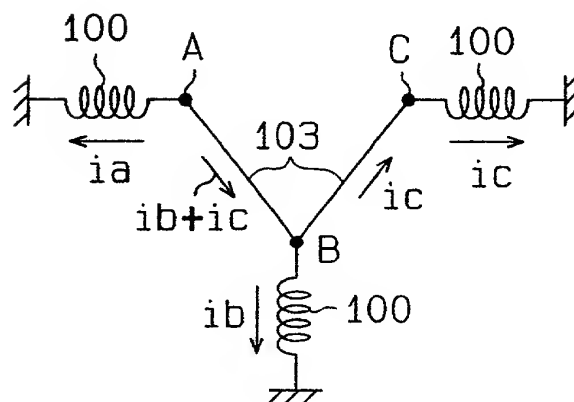
**Fig. 64**



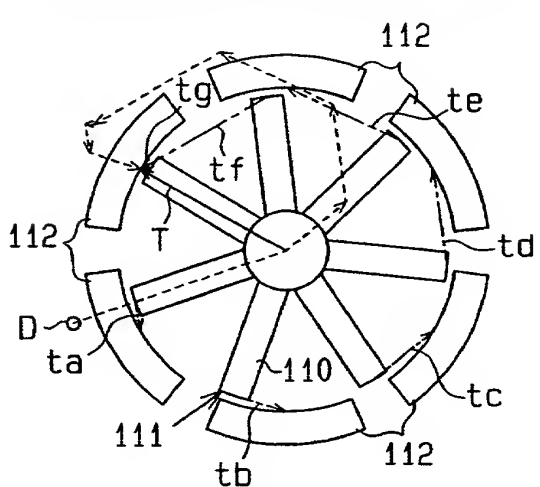
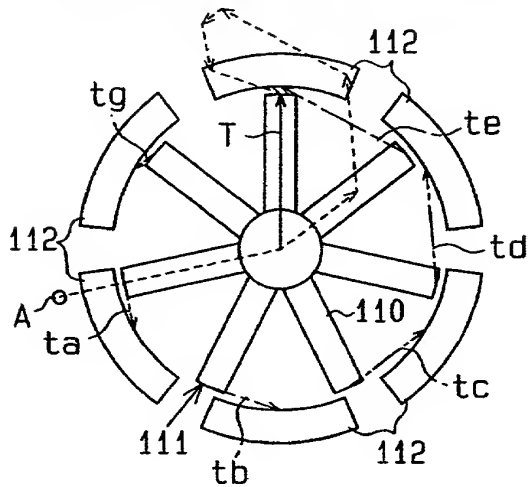
**Fig. 65**



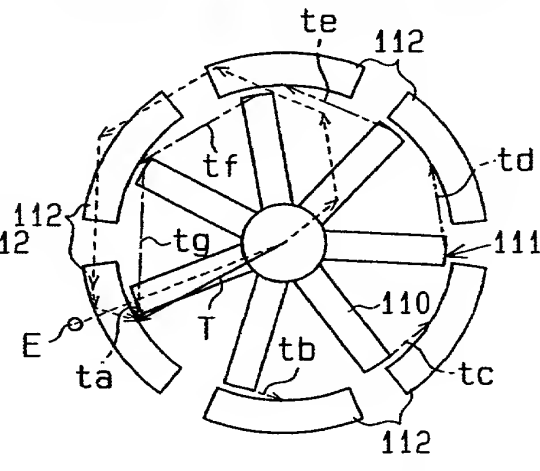
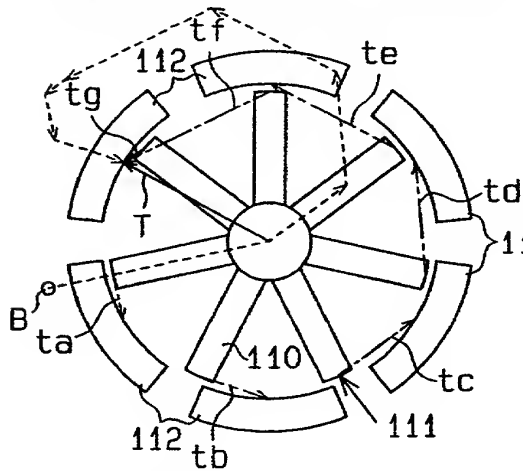
**Fig. 66**



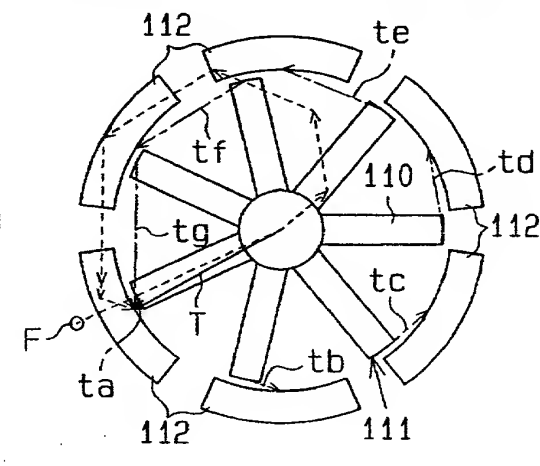
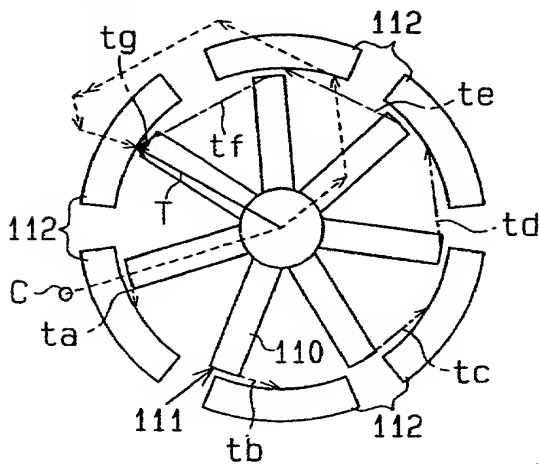
**Fig.67(a) (Prior Art)      Fig.67(d) (Prior Art)**



**Fig.67(b) (Prior Art)      Fig.67(e) (Prior Art)**

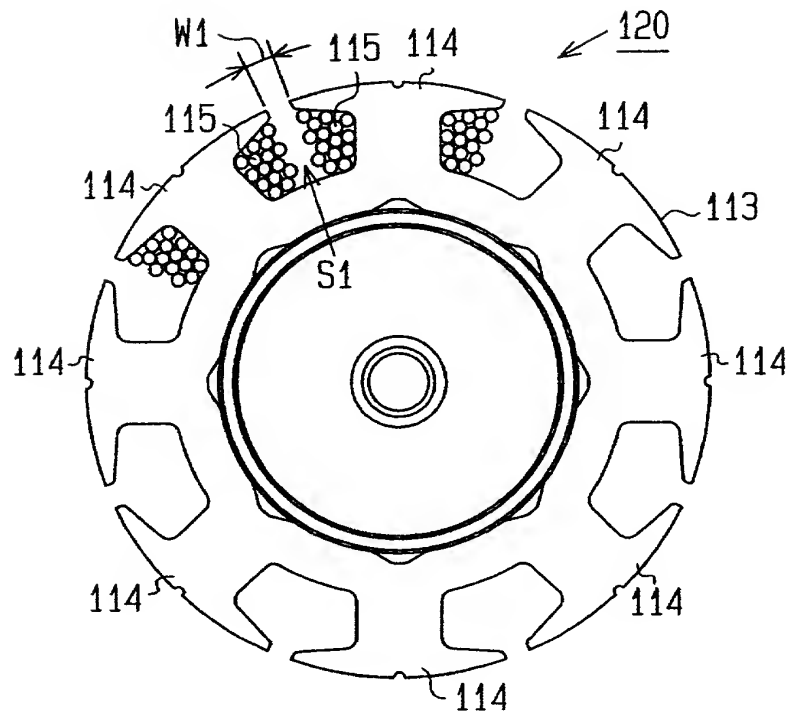


**Fig.67(c) (Prior Art)      Fig.67(f) (Prior Art)**



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**Fig.68 (Prior Art)**



**Fig.69 (Prior Art)**

